

# The U.S. Fish and Wildlife Service's (USFWS) County Species List for North Carolina

Following is a list of counties in North Carolina within which federally listed and proposed endangered, threatened, and candidate species and federal species of concern are either known or are considered probable (but not yet documented). It has been compiled by the USFWS from a variety of sources, including field surveys, museums and herbaria, literature, and personal communications.

This list contains information that is also found in the North Carolina Natural Heritage Program's (NCNHP) database of rare species information. However, the list is likely to include additional information that is not reflected in the NCNHP database.

This list is intended to assist those conducting surveys in proposed project areas, but it is not intended to serve as a substitute for field surveys. The list is subject to change as new information is received. For the most current version, please consult the website for the USFWS North Carolina Ecological Services Division at <http://nc-es.fws.gov/es/>.

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## **Other notes:**

**Critical habitat** is noted for the counties where it is designated or proposed. This notation is either accompanied by a description of the approximate areas affected by this designation, or a Federal Register citation where a more detailed description of the boundaries can be found.

**Sea turtles** occur in North Carolina's coastal waters and nest along its beaches. They are listed here in the counties where they are known to nest. The USFWS has jurisdiction over sea turtles in terrestrial systems; the National Marine Fisheries Service (NMFS) has authority over sea turtles in coastal waters.

**Manatees** occur throughout North Carolina's coastal waters, and they are listed here in the counties where there are known concentrations of them. The USFWS has jurisdiction over manatees.

COMMON NAME	SCIENTIFIC NAME	STATUS
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## **Alamance County**

### *Species*

#### Vertebrate

American eel	<i>Anguilla rostrata</i>	FSC
Carolina darter %	<i>Etheostoma collis lepidinion</i>	FSC

#### Invertebrate

Carolina creekshell	<i>Villosa vaughaniana</i>	FSC
Yellow lampmussel *	<i>Lampsilis cariosa</i>	FSC

COMMON NAME	SCIENTIFIC NAME	STATUS
<u>Vascular Plant</u>		
Buttercup phacelia	<i>Phacelia covillei</i>	FSC
Sweet pinesap **	<i>Monotropsis odorata</i>	FSC
<b>Alexander County</b>		
<i>Species</i>		
<u>Vertebrate</u>		
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Bog turtle	<i>Clemmys muhlenbergii</i>	T (S/A)
Rafinesque's big-eared bat *	<i>Corynorhinus rafinesquii</i>	FSC
<u>Vascular Plant</u>		
Dwarf-flowered heartleaf	<i>Hexastylis naniflora</i>	T
Radford's St. John's-wort	<i>Hypericum</i> sp. 1	FSC
Torrey's Mountain-mint *	<i>Pycnanthemum torrei</i>	FSC
<b>Alleghany County</b>		
<i>Species</i>		
<u>Vertebrate</u>		
Appalachian cottontail	<i>Sylvilagus obscurus</i>	FSC
Bog turtle	<i>Clemmys muhlenbergii</i>	T (S/A)
Eastern small-footed bat *	<i>Myotis leibii</i>	FSC
Golden-winged warbler	<i>Vermivora chrysoptera</i>	FSC
Hellbender	<i>Cryptobranchus alleganiensis</i>	FSC
Kanawha minnow	<i>Phenacobius teretulus</i>	FSC
<u>Invertebrate</u>		
Diana fritillary (butterfly)	<i>Speyeria diana</i>	FSC
Grayson crayfish ostracod *	<i>Ascetocythere cosmeta</i>	FSC
Green floater	<i>Lasmigona subviridis</i>	FSC
Grizzled skipper	<i>Pyrgus wyandot</i>	FSC
Midget snaketail	<i>Ophiogomphus howei</i>	FSC
Regal fritillary (butterfly) *	<i>Speyeria idalia</i>	FSC
<u>Vascular Plant</u>		
Butternut	<i>Juglans cinerea</i>	FSC
Cuthbert turtlehead	<i>Chelone cuthbertii</i>	FSC
Fen sedge	<i>Carex</i> sp. 2	FSC
Gray's lily	<i>Lilium grayi</i>	FSC
Gray's saxifrage *	<i>Saxifraga caroliniana</i>	FSC
Large-leaved Grass-of-Parnassus	<i>Parnassia grandifolia</i>	FSC

Sweet pinesap **	<i>Monotropis odorata</i>	FSC
Tall larkspur *	<i>Delphinium exaltatum</i>	FSC

## Anson County

### Species

#### Vertebrate

American eel	<i>Anguilla rostrata</i>	FSC
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Carolina darter **	<i>Etheostoma collis collis</i>	FSC
Carolina redbhorse	<i>Moxostoma</i> sp. 2	FSC
Red-cockaded woodpecker	<i>Picoides borealis</i>	E
Robust redbhorse	<i>Moxostoma robustum</i>	FSC
Shortnose sturgeon	<i>Acipenser brevirostrum</i>	E

#### Invertebrate

Brook floater	<i>Alasmidonta varicosa</i>	FSC
Carolina creekshell	<i>Villosa vaughaniana</i>	FSC
Carolina heelsplitter *	<i>Lasmigona decorata</i>	E
Yellow lampmussel	<i>Lampsilis cariosa</i>	FSC

#### Vascular Plant

Bog spicebush *	<i>Lindera subcoriacea</i>	FSC
Dwarf aster	<i>Eurybia mirabilis</i>	FSC
Flatrock Panic grass	<i>Panicum lithophilum</i>	FSC
Schweinitz's sunflower	<i>Helianthus schweinitzii</i>	E

## Ashe County

### Species

#### Vertebrate

Allegheny woodrat	<i>Neotoma magister</i>	FSC
Appalachian Bewick's wren *	<i>Thryomanes bewickii altus</i>	FSC
Appalachian cottontail	<i>Sylvilagus obscurus</i>	FSC
Bog turtle	<i>Clemmys muhlenbergii</i>	T (S/A)
Golden-winged warbler	<i>Vermivora chrysoptera</i>	FSC
Hellbender	<i>Cryptobranchus alleganiensis</i>	FSC
Kanawha minnow	<i>Phenacobius teretulus</i>	FSC
Pygmy salamander	<i>Desmognathus wrighti</i>	FSC
Red crossbill (Southern Appalachian) *	<i>Loxia curvirostra</i>	FSC

COMMON NAME	SCIENTIFIC NAME	STATUS
<u>Invertebrate</u>		
Diana fritillary (butterfly)	<i>Speyeria diana</i>	FSC
Gammon's stenelmis riffle beetle *	<i>Stenelmis gammoni</i>	FSC
Green floater	<i>Lasmigona subviridis</i>	FSC
Grizzled skipper	<i>Pyrgus wyandot</i>	FSC
Midget snaketail	<i>Ophiogomphus howei</i>	FSC
Regal fritillary (butterfly) *	<i>Speyeria idalia</i>	FSC
<u>Vascular Plant</u>		
Appalachian oak fern	<i>Gymnocarpium appalachianum</i>	FSC
Bog blue grass	<i>Poa paludigena</i>	FSC
Butternut	<i>Juglans cinerea</i>	FSC
Cuthbert turtlehead	<i>Chelone cuthbertii</i>	FSC
Darlington's spurge *	<i>Euphorbia purpurea</i>	FSC
Gray's lily	<i>Lilium grayi</i>	FSC
Gray's saxifrage	<i>Saxifraga caroliniana</i>	FSC
Heller's blazing star	<i>Liatris helleri</i>	T
Large-leaved Grass-of-Parnassus	<i>Parnassia grandifolia</i>	FSC
Roan mountain bluet	<i>Hedyotis purpurea</i> var. <i>montana</i>	E
Spreading avens	<i>Geum radiatum</i>	E
Swamp pink	<i>Helonias bullata</i>	T
Tall larkspur	<i>Delphinium exaltatum</i>	FSC
Torrey's Mountain-mint *	<i>Pycnanthemum torrei</i>	FSC
Virginia spiraea	<i>Spiraea virginiana</i>	T
<u>Lichen</u>		
Bluff mountain reindeer leichen	<i>Cladonia psoromica</i>	FSC
Rock gnome lichen	<i>Gymnoderma lineare</i>	E

## Avery County

### Critical Habitat

#### Invertebrate

Spruce-fir moss spider	<i>Microhexura montivaga</i>	E
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All areas of privately owned Grandfather Mountain at and above the 1,646-m (5,400-ft) contour, and all portions of the Pisgah National Forest in North Carolina and the Cherokee National Forest in Tennessee, bounded to the north and to the south of the North Carolina/Tennessee state line by the 1,646-m (5,400-ft) contour, from the intersection of the 1,646-m (5,400-ft) contour with the State line north of Elk Hollow Branch, Avery County, North Carolina, and southwest of Yellow Mountain, Carter County, Tennessee, west to the 1,646-m (5,400-ft) contour at Eagle Cliff, Mitchell County, North Carolina. Within these areas, the primary constituent elements include (1) Fraser fir or fir-dominated spruce-fir forests at and above 1,646-m (5,400-m) in elevation, and (2) moderately thick and humid, but not wet,

## COMMON NAME

## SCIENTIFIC NAME

## STATUS

moss (species in the genus *Dicranodontium*, and possibly *Polytrichum*) and/or liverwort mats on rock surfaces that are adequately sheltered from the sun and rain (by overhang and aspect) and include a thin layer of humid soil and/or humus between the moss and rock surface. July 6, 2001, Federal Register, 66:35547-35566.

*Species*Vertebrate

Allegheny woodrat	<i>Neotoma magister</i>	FSC
Appalachian Bewick's wren *	<i>Thryomanes bewickii altus</i>	FSC
Appalachian cottontail	<i>Sylvilagus obscurus</i>	FSC
Bog turtle	<i>Clemmys muhlenbergii</i>	T (S/A)
Carolina northern flying squirrel	<i>Glaucomys sabrinus coloratus</i>	E
Eastern small-footed bat	<i>Myotis leibii</i>	FSC
Hellbender *	<i>Cryptobranchus alleganiensis</i>	FSC
Mountain blotched chub %	<i>Erimystax insignis eristigma</i>	FSC
Northern saw-whet owl (Southern Appalachian population)	<i>Aegolius acadicus</i> pop. 1	FSC
Pygmy salamander	<i>Desmognathus wrighti</i>	FSC
Red crossbill (Southern Appalachian)	<i>Loxia curvirostra</i>	FSC
Southern Appalachian black-capped chickadee	<i>Poecile atricapillus praticus</i>	FSC
Southern rock vole	<i>Microtus chrotorrhinus carolinensis</i>	FSC
Southern water shrew	<i>Sorex palustris punctulatus</i>	FSC
Virginia big-eared bat	<i>Corynorhinus townsendii virginianus</i>	E
Yellow-bellied sapsucker (Southern Appalachian population) *	<i>Sphyrapicus varius appalachiensis</i>	FSC

Invertebrate

Diana fritillary (butterfly)	<i>Speyeria diana</i>	FSC
Grayson crayfish ostracod *	<i>Ascetocythere cosmeta</i>	FSC
Regal fritillary (butterfly)	<i>Speyeria idalia</i>	FSC
Spruce-fir moss spider	<i>Microhexura montivaga</i>	E

Vascular Plant

Bent avens	<i>Geum geniculatum</i>	FSC
Blue Ridge goldenrod	<i>Solidago spithamaea</i>	T
Bog blue grass	<i>Poa paludigena</i>	FSC
Butternut	<i>Juglans cinerea</i>	FSC
Cuthbert turtlehead *	<i>Chelone cuthbertii</i>	FSC
Fraser fir	<i>Abies fraseri</i>	FSC
Gray's lily	<i>Lilium grayi</i>	FSC

COMMON NAME	SCIENTIFIC NAME	STATUS
Gray's saxifrage	<i>Saxifraga caroliniana</i>	FSC
Heller's blazing star	<i>Liatris helleri</i>	T
Large-leaved Grass-of-Parnassus *	<i>Parnassia grandifolia</i>	FSC
Mountain bitter cress	<i>Cardamine clematitis</i>	FSC
Roan False Goat's-beard *	<i>Astilbe crenatiloba</i>	FSC
Roan mountain bluet	<i>Hedyotis purpurea</i> var. <i>montana</i>	E
Spreading avens	<i>Geum radiatum</i>	E
Tall larkspur *	<i>Delphinium exaltatum</i>	FSC
<u>Nonvascular plant</u>		
a liverwort *	<i>Plagiochila virginica</i> var. <i>caroliniana</i>	FSC
a liverwort	<i>Sphenolobopsis pearsonii</i>	FSC
a liverwort	<i>Plagiochila sullivantii</i> var. <i>sullivantii</i>	FSC
<u>Lichen</u>		
Rock gnome lichen	<i>Gymnoderma lineare</i>	E

## Beaufort County

### Species

#### Vertebrate

American eel	<i>Anguilla rostrata</i>	FSC
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Black-throated green warbler	<i>Dendroica virens waynei</i>	FSC
Carolina crawfish frog *	<i>Rana capito capito</i>	FSC
Eastern Henslow's sparrow	<i>Ammodramus henslowii susurrans</i>	FSC
Kemp's (=Atlantic) ridley sea turtle	<i>Lepidochelys kempii</i>	E
Rafinesque's big-eared bat *	<i>Corynorhinus rafinesquii</i>	FSC
Red wolf **	<i>Canis rufus</i>	E (XN)
Red-cockaded woodpecker	<i>Picoides borealis</i>	E
West Indian manatee	<i>Trichechus manatus</i>	E

#### Vascular Plant

Grassleaf arrowhead *	<i>Sagittaria weatherbiana</i>	FSC
Rough-leaved loosestrife	<i>Lysimachia asperulaefolia</i>	E
Sensitive joint-vetch	<i>Aeschynomene virginica</i>	T
Venus' fly-trap	<i>Dionaea muscipula</i>	FSC

## Bertie County

### Species

#### Vertebrate

American eel	<i>Anguilla rostrata</i>	FSC
Bald eagle	<i>Haliaeetus leucocephalus</i>	T

COMMON NAME	SCIENTIFIC NAME	STATUS
Cerulean warbler	<i>Dendroica cerulea</i>	FSC
Eastern Henslow's sparrow	<i>Ammodramus henslowii susurrans</i>	FSC
Rafinesque's big-eared bat	<i>Corynorhinus rafinesquii</i>	FSC
Red-cockaded woodpecker	<i>Picoides borealis</i>	E
Shortnose sturgeon	<i>Acipenser brevirostrum</i>	E
Southeastern myotis	<i>Myotis austroriparius</i>	FSC
<u>Invertebrate</u>		
Chowanoke crayfish	<i>Orconectes virginianus</i>	FSC

## Bladen County

### Species

#### Vertebrate

American alligator	<i>Alligator mississippiensis</i>	T (S/A)
American eel	<i>Anguilla rostrata</i>	FSC
Bachman's sparrow	<i>Aimophila aestivalis</i>	FSC
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Black-throated green warbler	<i>Dendroica virens waynei</i>	FSC
Broadtail madtom **	<i>Noturus</i> sp. cf. <i>leptacanthus</i>	FSC
Carolina crawfish frog *	<i>Rana capito capito</i>	FSC
Mimic glass lizard *	<i>Ophisaurus mimicus</i>	FSC
Rafinesque's big-eared bat	<i>Corynorhinus rafinesquii</i>	FSC
Red-cockaded woodpecker	<i>Picoides borealis</i>	E
Shortnose sturgeon	<i>Acipenser brevirostrum</i>	E
Southeastern myotis	<i>Myotis austroriparius</i>	FSC
Southern hognose snake	<i>Heterodon simus</i>	FSC

#### Invertebrate

Atlantic pigtoe	<i>Fusconaia masoni</i>	FSC
Buchholz's dart moth **	<i>Agrotis buchholzi</i>	FSC
Carter's noctuid moth **	<i>Spartiniphaga carterae</i>	FSC
Variiegated clubtail	<i>Progomphus bellei</i>	FSC
Venus flytrap cutworm **	<i>Hemipachnobia subporphyrea</i>	FSC
Yellow lampmussel	<i>Lampsilis cariosa</i>	FSC

#### Vascular Plant

American chaffseed *	<i>Schwalbea americana</i>	E
Awned meadowbeauty	<i>Rhexia aristosa</i>	FSC
Boykin's lobelia *	<i>Lobelia boykinii</i>	FSC
Carolina bogmint	<i>Macbridea caroliniana</i>	FSC

COMMON NAME	SCIENTIFIC NAME	STATUS
Carolina grass-of-parnassus	<i>Parnassia caroliniana</i>	FSC
Carolina lead-plant *	<i>Amorpha georgiana</i> var. <i>confusa</i>	FSC
False coco **	<i>Pteroglossaspis ecristata</i>	FSC
Grassleaf arrowhead	<i>Sagittaria weatherbiana</i>	FSC
Pickering's dawnflower	<i>Stylisma pickeringii</i> var. <i>pickeringii</i>	FSC
Pineland plantain *	<i>Plantago sparsiflora</i>	FSC
Pondberry *	<i>Lindera melissifolia</i>	E
Pondspice	<i>Litsea aestivalis</i>	FSC
Rough-leaved loosestrife	<i>Lysimachia asperulaefolia</i>	E
Sandhills milk-vetch *	<i>Astragalus michauxii</i>	FSC
Spring-flowering goldenrod	<i>Solidago verna</i>	FSC
Venus' fly-trap	<i>Dionaea muscipula</i>	FSC
Wagner's spleenwort *	<i>Asplenium heteroresiliens</i>	FSC

## Brunswick County

### Critical Habitat

#### Vertebrate

Piping plover	<i>Charadrius melodus</i>	T
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See the Federal Register for a description of the primary constituent elements essential for the conservation of wintering piping plovers within the designated units. This document also contains a map and a description of each designated unit. July 10, 2001, Federal Register, 66:36038- 36136.

### Species

#### Vertebrate

American alligator	<i>Alligator mississippiensis</i>	T (S/A)
American eel	<i>Anguilla rostrata</i>	FSC
Bachman's sparrow	<i>Aimophila aestivalis</i>	FSC
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Black-throated green warbler	<i>Dendroica virens waynei</i>	FSC
Broadtail madtom *	<i>Noturus</i> sp. cf. <i>leptacanthus</i>	FSC
Carolina crawfish frog	<i>Rana capito capito</i>	FSC
Carolina pygmy sunfish	<i>Elassoma boehlkei</i>	FSC
Eastern Henslow's sparrow	<i>Ammodramus henslowii susurrans</i>	FSC
Eastern painted bunting	<i>Passerina ciris ciris</i>	FSC
Eastern puma (=cougar) *	<i>Puma concolor cougar</i>	E
Green sea turtle	<i>Chelonia mydas</i> (incl. <i>agassizi</i> )	T
Kemp's (=Atlantic) ridley sea turtle	<i>Lepidochelys kempii</i>	E
Leatherback sea turtle *	<i>Dermochelys coriacea</i>	E

COMMON NAME	SCIENTIFIC NAME	STATUS
Loggerhead sea turtle	<i>Caretta caretta</i>	T
Mimic glass lizard	<i>Ophisaurus mimicus</i>	FSC
Northern pine snake	<i>Pituophis melanoleucus melanoleucus</i>	FSC
Piping plover	<i>Charadrius melodus</i>	T
Rafinesque's big-eared bat	<i>Corynorhinus rafinesquii</i>	FSC
Red-cockaded woodpecker	<i>Picoides borealis</i>	E
Shortnose sturgeon	<i>Acipenser brevirostrum</i>	E
Southern hognose snake *	<i>Heterodon simus</i>	FSC
West Indian manatee	<i>Trichechus manatus</i>	E
Wood stork	<i>Mycteria americana</i>	E
<u>Invertebrate</u>		
Buchholz's dart moth	<i>Agrotis buchholzi</i>	FSC
Cape Fear threetooth	<i>Triodopsis soelneri</i>	FSC
Carter's noctuid moth **	<i>Spartiniphaga carterae</i>	FSC
Eastern beard grass skipper **	<i>Atrytone arogos arogos</i>	FSC
Greenfield rams-horn	<i>Helisoma eucosmium</i>	FSC
Loammi skipper *	<i>Atrytonopsis loammi</i>	FSC
Magnificent rams-horn	<i>Planorbella magnifica</i>	FSC
Rare skipper	<i>Problema bulenta</i>	FSC
Venus flytrap cutworm **	<i>Hemipachnobia subporphyrea</i>	FSC
Waccamaw spike	<i>Elliptio waccamawensis</i>	FSC
<u>Vascular Plant</u>		
a quillwort	<i>Isoetes microvela</i>	FSC
Awned meadowbeauty *	<i>Rhexia aristosa</i>	FSC
Carolina atamasco lily	<i>Zephyranthes simpsonii</i>	FSC
Carolina bishopweed	<i>Ptilimnium ahlesii</i>	FSC
Carolina bogmint	<i>Macbridea caroliniana</i>	FSC
Carolina grass-of-parnassus	<i>Parnassia caroliniana</i>	FSC
Carolina lead-plant	<i>Amorpha georgiana</i> var. <i>confusa</i>	FSC
Coastal beaksedge	<i>Rhynchospora pleiantha</i>	FSC
Coastal goldenrod	<i>Solidago villosicarpa</i>	FSC
Cooley's meadowrue	<i>Thalictrum cooleyi</i>	E
Dune blue curls	<i>Trichostema</i> sp. 1	FSC
Grassleaf arrowhead	<i>Sagittaria weatherbiana</i>	FSC
Harper's fimbristylis	<i>Fimbristylis perpusilla</i>	FSC
Large-leaved Grass-of-Parnassus	<i>Parnassia grandifolia</i>	FSC

COMMON NAME	SCIENTIFIC NAME	STATUS
Loose watermilfoil	<i>Myriophyllum laxum</i>	FSC
Pickering's dawnflower	<i>Stylisma pickeringii</i> var. <i>pickeringii</i>	FSC
Pineland plantain	<i>Plantago sparsiflora</i>	FSC
Pondspice	<i>Litsea aestivalis</i>	FSC
Purple balduina *	<i>Balduina atropurpurea</i>	FSC
Raven's boxseed *	<i>Ludwigia ravenii</i>	FSC
Rough-leaved loosestrife	<i>Lysimachia asperulaefolia</i>	E
Savanna onion	<i>Allium</i> sp. 1	FSC
Seabeach amaranth	<i>Amaranthus pumilus</i>	T
Spring-flowering goldenrod	<i>Solidago verna</i>	FSC
Swamp forest beakrush	<i>Rhynchospora decurrens</i>	FSC
Thorne's beakrush	<i>Rhynchospora thornei</i>	FSC
Tough bumelia	<i>Sideroxylon tenax</i>	FSC
Venus' fly-trap	<i>Dionaea muscipula</i>	FSC
Wireleaf dropseed	<i>Sporobolus teretifolius sensu stricto</i>	FSC
<u>Nonvascular plant</u>		
Savanna campylopus	<i>Campylopus carolinae</i>	FSC

## Buncombe County

### Species

#### Vertebrate

Allegheny woodrat	<i>Neotoma magister</i>	FSC
Appalachian Bewick's wren *	<i>Thryomanes bewickii altus</i>	FSC
Bachman's sparrow *	<i>Aimophila aestivalis</i>	FSC
Blotchside logperch *	<i>Percina burtoni</i>	FSC
Bog turtle	<i>Clemmys muhlenbergii</i>	T (S/A)
Carolina northern flying squirrel	<i>Glaucomys sabrinus coloratus</i>	E
Cerulean warbler	<i>Dendroica cerulea</i>	FSC
Eastern puma (=cougar) *	<i>Puma concolor cougar</i>	E
Eastern small-footed bat *	<i>Myotis leibii</i>	FSC
Gray bat	<i>Myotis grisescens</i>	E
Hellbender	<i>Cryptobranchus alleganiensis</i>	FSC
Longhead darter *	<i>Percina macrocephala</i>	FSC
Mountain blotched chub **	<i>Erimystax insignis eristigma</i>	FSC
Northern saw-whet owl (Southern Appalachian population)	<i>Aegolius acadicus</i> pop. 1	FSC
Paddlefish *	<i>Polyodon spathula</i>	FSC

COMMON NAME	SCIENTIFIC NAME	STATUS
Pygmy salamander	<i>Desmognathus wrighti</i>	FSC
Rafinesque's big-eared bat *	<i>Corynorhinus rafinesquii</i>	FSC
Red crossbill (Southern Appalachian)	<i>Loxia curvirostra</i>	FSC
Southern Appalachian black-capped chickadee *	<i>Poecile atricapillus praticus</i>	FSC
Southern Appalachian eastern woodrat	<i>Neotoma floridana haematorea</i>	FSC
Southern water shrew	<i>Sorex palustris punctulatus</i>	FSC
Spotfin chub (=turquoise shiner) *	<i>Erimonax monachus</i>	T
Yellow-bellied sapsucker (Southern Appalachian population)	<i>Sphyrapicus varius appalachiensis</i>	FSC
<u>Invertebrate</u>		
Appalachian elktoe *	<i>Alasmidonta raveneliana</i>	E
Diana fritillary (butterfly)	<i>Speyeria diana</i>	FSC
French Broad crayfish	<i>Cambarus reburus</i>	FSC
Oyster mussel *	<i>Epioblasma capsaeformis</i>	E
Southern Tawny Crescent butterfly *	<i>Phyciodes batesii maconensis</i>	FSC
Tan riffleshell ****	<i>Epioblasma florentina walkeri (=E. walkeri)</i>	E
<u>Vascular Plant</u>		
Blue Ridge Ragwort	<i>Packera millefolium</i>	FSC
Bunched arrowhead *	<i>Sagittaria fasciculata</i>	E
Butternut *	<i>Juglans cinerea</i>	FSC
Cain's reedgrass	<i>Calamagrostis cainii</i>	FSC
Darlington's spurge	<i>Euphorbia purpurea</i>	FSC
Fraser fir	<i>Abies fraseri</i>	FSC
Fraser's loosestrife *	<i>Lysimachia fraseri</i>	FSC
French Broad heartleaf	<i>Hexastylis rhombiformis</i>	FSC
Gray's lily	<i>Lilium grayi</i>	FSC
Gray's saxifrage	<i>Saxifraga caroliniana</i>	FSC
Large-leaved Grass-of-Parnassus *	<i>Parnassia grandifolia</i>	FSC
Mountain catchfly	<i>Silene ovata</i>	FSC
Mountain heartleaf	<i>Hexastylis contracta</i>	FSC
Mountain sweet pitcherplant *	<i>Sarracenia rubra ssp. jonesii</i>	E
Piratebush	<i>Buckleya distichophylla</i>	FSC
Spreading avens	<i>Geum radiatum</i>	E
Sweet pinesap	<i>Monotropsis odorata</i>	FSC
Virginia spiraea *	<i>Spiraea virginiana</i>	T

Lichen

Rock gnome lichen	<i>Gymnoderma lineare</i>	E
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**Burke County**

*Critical Habitat*

Vascular Plant

Mountain golden heather	<i>Hudsonia montana</i>	T
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The area bounded by the following: on the west by the 2200' contour; on the east by the Linville Gorge Wilderness. Boundary north from the intersection of the 2200' contour and the Shortoff Mountain Trail to where it intersects the 3400' contour at "The Chimneys"--then follow the 3400' contour north until it reintersects the Wilderness Boundary--then follow the Wilderness Boundary again northward until it intersects the 3200' contour extending west from its intersection with the Wilderness Boundary until it begins to turn south--at this point the Boundary extends due east until it intersects the 2200' contour. October 20, 1980, Federal Register, 45: 69360-69363.

*Species*

Vertebrate

Allegheny woodrat	<i>Neotoma magister</i>	FSC
American eel	<i>Anguilla rostrata</i>	FSC
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Bog turtle	<i>Clemmys muhlenbergii</i>	T (S/A)
Rafinesque's big-eared bat	<i>Corynorhinus rafinesquii</i>	FSC
Red crossbill (Southern Appalachian)	<i>Loxia curvirostra</i>	FSC
Southern Appalachian eastern woodrat	<i>Neotoma floridana haematoreia</i>	FSC

Invertebrate

Brook floater	<i>Alasmidonta varicosa</i>	FSC
Cherokee clubtail **	<i>Gomphus consanguis</i>	FSC
Diana fritillary (butterfly)	<i>Speyeria diana</i>	FSC
Edmund's snaketail	<i>Ophiogomphus edmundo</i>	FSC
Margarita River skimmer	<i>Macromia margarita</i>	FSC
Midget snaketail	<i>Ophiogomphus howei</i>	FSC

Vascular Plant

Butternut	<i>Juglans cinerea</i>	FSC
Cuthbert turtlehead	<i>Chelone cuthbertii</i>	FSC
Dwarf-flowered heartleaf	<i>Hexastylis naniflora</i>	T
Gray's saxifrage	<i>Saxifraga caroliniana</i>	FSC
Heller's blazing star	<i>Liatris helleri</i>	T
Mountain golden heather	<i>Hudsonia montana</i>	T
Small whorled pogonia	<i>Isotria medeoloides</i>	T

COMMON NAME	SCIENTIFIC NAME	STATUS
Spreading avens *	<i>Geum radiatum</i>	E
Sweet pinesap	<i>Monotropis odorata</i>	FSC
<u>Nonvascular plant</u>		
a liverwort *	<i>Porella wataugensis</i>	FSC
a liverwort *	<i>Plagiochila sullivantii</i> var. <i>sullivantii</i>	FSC
a liverwort *	<i>Plagiochila sullivantii</i> var. <i>spinigera</i>	FSC
a liverwort	<i>Cephaloziella obtusilobula</i>	FSC

## Cabarrus County

### Species

#### Vertebrate

American eel	<i>Anguilla rostrata</i>	FSC
Carolina darter	<i>Etheostoma collis collis</i>	FSC

#### Invertebrate

Carolina creekshell	<i>Villosa vaughaniana</i>	FSC
Carolina heelsplitter *	<i>Lasmigona decorata</i>	E

#### Vascular Plant

Prairie birdsfoot-trefoil	<i>Lotus unifoliolatus</i> var. <i>helleri</i>	FSC
Schweinitz's sunflower	<i>Helianthus schweinitzii</i>	E
Virginia quillwort *	<i>Isoetes virginica</i>	FSC

## Caldwell County

### Critical Habitat

#### Invertebrate

Spruce-fir moss spider	<i>Microhexura montivaga</i>	E
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All areas of privately owned Grandfather Mountain at and above the 1,646-m (5,400-ft) contour. (Unit 4 of the Critical Habitat designation). Within these areas, the primary constituent elements include (1) Fraser fir or fir-dominated spruce-fir forests at and above 1,646-m (5,400-m) in elevation, and (2) moderately thick and humid, but not wet, moss (species in the genus *Dicranodontium*, and possibly *Polytrichum*) and/or liverwort mats on rock surfaces that are adequately sheltered from the sun and rain (by overhang and aspect) and include a thin layer of humid soil and/or humus between the moss and rock surface. July 6, 2001, Federal Register, 66:35547-35566.

### Species

#### Vertebrate

Allegheny woodrat **	<i>Neotoma magister</i>	FSC
Bog turtle	<i>Clemmys muhlenbergii</i>	T (S/A)
Pygmy salamander	<i>Desmognathus wrighti</i>	FSC
Red crossbill (Southern Appalachian) %	<i>Loxia curvirostra</i>	FSC
Southern Appalachian black-capped chickadee	<i>Poecile atricapillus praticus</i>	FSC

COMMON NAME	SCIENTIFIC NAME	STATUS
Virginia big-eared bat	<i>Corynorhinus townsendii virginianus</i>	E
Yellow-bellied sapsucker (Southern Appalachian population)	<i>Sphyrapicus varius appalachiensis</i>	FSC
<u>Invertebrate</u>		
Brook floater	<i>Alasmidonta varicosa</i>	FSC
Diana fritillary (butterfly)	<i>Speyeria diana</i>	FSC
Edmund's snaketail	<i>Ophiogomphus edundo</i>	FSC
Margarita River skimmer **	<i>Macromia margarita</i>	FSC
Spruce-fir moss spider	<i>Microhexura montivaga</i>	E
<u>Vascular Plant</u>		
Bent avens	<i>Geum geniculatum</i>	FSC
Butternut *	<i>Juglans cinerea</i>	FSC
Dwarf-flowered heartleaf	<i>Hexastylis naniflora</i>	T
Fraser fir	<i>Abies fraseri</i>	FSC
Gray's lily	<i>Lilium grayi</i>	FSC
Heller's blazing star	<i>Liatris helleri</i>	T
Mountain bitter cress	<i>Cardamine clematitis</i>	FSC
Riparian vervain *	<i>Verbena riparia</i>	FSC
Sweet pinesap *	<i>Monotropsis odorata</i>	FSC
<u>Nonvascular plant</u>		
a liverwort *	<i>Plagiochila sullivantii</i> var. <i>sullivantii</i>	FSC
a liverwort	<i>Sphenolobopsis pearsonii</i>	FSC

## Camden County

### Species

#### Vertebrate

American alligator *	<i>Alligator mississippiensis</i>	T (S/A)
American eel	<i>Anguilla rostrata</i>	FSC
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Black-throated green warbler	<i>Dendroica virens waynei</i>	FSC
Red-cockaded woodpecker *	<i>Picoides borealis</i>	E
Shortnose sturgeon *	<i>Acipenser brevirostrum</i>	E

#### Vascular Plant

Virginia least trillium	<i>Trillium pusillum</i> var. <i>virginianum</i>	FSC
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**Carteret County***Critical Habitat*Vertebrate

Piping plover

*Charadrius melodus*

T

See the Federal Register for a description of the primary constituent elements essential for the conservation of wintering piping plovers within the designated units. This document also contains a map and a description of each designated unit. July 10, 2001, Federal Register, 66:36038- 36136.

*Species*Vertebrate

American alligator

*Alligator mississippiensis*

T (S/A)

American eel

*Anguilla rostrata*

FSC

Bachman's sparrow

*Aimophila aestivalis*

FSC

Black rail

*Laterallus jamaicensis*

FSC

Black-throated green warbler

*Dendroica virens waynei*

FSC

Carolina crawfish frog

*Rana capito capito*

FSC

Eastern Henslow's sparrow

*Ammodramus henslowii susurrans*

FSC

Eastern painted bunting

*Passerina ciris ciris*

FSC

Eastern puma (=cougar) \*\*

*Puma concolor cougar*

E

Green sea turtle

*Chelonia mydas (incl. agassizi)*

T

Hawksbill (=carey) sea turtle \*

*Eretmochelys imbricata*

E

Kemp's (=Atlantic) ridley sea turtle \*

*Lepidochelys kempii*

E

Leatherback sea turtle

*Dermochelys coriacea*

E

Loggerhead sea turtle

*Caretta caretta*

T

Mimic glass lizard

*Ophisaurus mimicus*

FSC

Northern diamondback terrapin

*Malaclemys terrapin terrapin*

FSC

Piping plover

*Charadrius melodus*

T

Red-cockaded woodpecker

*Picoides borealis*

E

Roseate tern \*

*Sterna dougallii dougallii*

E

Shortnose sturgeon %

*Acipenser brevirostrum*

E

Southern hognose snake \*\*

*Heterodon simus*

FSC

West Indian manatee

*Trichechus manatus*

E

Invertebrate

a skipper

*Atrytonopsis* sp. 1

FSC

Buchholz's dart moth

*Agrotis buchholzi*

FSC

Carter's noctuid moth \*

*Spartiniphaga carterae*

FSC

Eastern beard grass skipper

*Atrytone arogos arogos*

FSC

COMMON NAME	SCIENTIFIC NAME	STATUS
Venus flytrap cutworm **	<i>Hemipachnobia subporphyrea</i>	FSC
<u>Vascular Plant</u>		
Coastal beaksedge	<i>Rhynchospora pleiantha</i>	FSC
Dune blue curls	<i>Trichostema</i> sp. 1	FSC
Loose watermilfoil	<i>Myriophyllum laxum</i>	FSC
Pickering's dawnflower	<i>Stylisma pickeringii</i> var. <i>pickeringii</i>	FSC
Pondspice	<i>Litsea aestivalis</i>	FSC
Raven's boxseed	<i>Ludwigia ravenii</i>	FSC
Rough-leaved loosestrife	<i>Lysimachia asperulaefolia</i>	E
Seabeach amaranth	<i>Amaranthus pumilus</i>	T
Spring-flowering goldenrod	<i>Solidago verna</i>	FSC
Venus' fly-trap	<i>Dionaea muscipula</i>	FSC
<u>Nonvascular plant</u>		
Savanna campylopus	<i>Campylopus carolinae</i>	FSC

## Caswell County

### Species

#### Invertebrate

Atlantic pigtoe	<i>Fusconaia masoni</i>	FSC
James (=Virginia) spinymussel %	<i>Pleurobema collina</i>	E

#### Vascular Plant

Prairie birdsfoot-trefoil *	<i>Lotus unifoliolatus</i> var. <i>helleri</i>	FSC
Virginia quillwort *	<i>Isoetes virginica</i>	FSC

## Catawba County

### Species

#### Vertebrate

Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Southern Appalachian eastern woodrat	<i>Neotoma floridana haematoreia</i>	FSC

#### Invertebrate

Catawba crayfish ostracod	<i>Dactylocythere isabelae</i>	FSC
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#### Vascular Plant

Dwarf-flowered heartleaf	<i>Hexastylis naniflora</i>	T
Sweet pinesap	<i>Monotropsis odorata</i>	FSC

**Chatham County***Critical Habitat*Vertebrate

Cape Fear shiner	<i>Notropis mekistocholas</i>	E
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Approximately 4.1 miles of the Rocky River from North Carolina State Highway 902 Bridge downstream to Chatham County Road 1010 Bridge; and approximately 0.5 river mile of Bear Creek, from Chatham County Road 2156 Bridge downstream to the Rocky River, then downstream in the Rocky River (approximately 4.2 river miles) to the Deep River, then downstream in the Deep River (approximately 2.6 river miles) to a point 0.3 river mile below the Moncure, North Carolina, U.S. Geological Survey Gaging Station. Constituent elements include clean streams with gravel, cobble, and boulder substrates with pools, riffles, shallow runs and slackwater areas with large rock outcrops and side channels and pools with water of good quality with relatively low silt loads. September 25, 1987, Federal Register, 2: 36034-36039.

*Species*Vertebrate

American eel	<i>Anguilla rostrata</i>	FSC
Bachman's sparrow	<i>Aimophila aestivalis</i>	FSC
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Cape Fear shiner	<i>Notropis mekistocholas</i>	E
Carolina darter	<i>Etheostoma collis lepidinion</i>	FSC
Carolina redbhorse	<i>Moxostoma</i> sp. 2	FSC
Red-cockaded woodpecker *	<i>Picoides borealis</i>	E

Invertebrate

Atlantic pigtoe *	<i>Fusconaia masoni</i>	FSC
Brook floater	<i>Alasmidonta varicosa</i>	FSC
Carolina creekshell	<i>Villosa vaughaniana</i>	FSC
Septima's clubtail	<i>Gomphus septima</i>	FSC
Yellow lampmussel	<i>Lampsilis cariosa</i>	FSC

Vascular Plant

Buttercup phacelia	<i>Phacelia covillei</i>	FSC
Harperella	<i>Ptilimnium nodosum</i>	E
Sweet pinesap	<i>Monotropsis odorata</i>	FSC
Virginia quillwort *	<i>Isoetes virginica</i>	FSC

**Cherokee County***Species*Vertebrate

Bog turtle	<i>Clemmys muhlenbergii</i>	T (S/A)
Eastern small-footed bat	<i>Myotis leibii</i>	FSC
Hellbender	<i>Cryptobranchus alleganiensis</i>	FSC

COMMON NAME	SCIENTIFIC NAME	STATUS
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Indiana bat (S)	<i>Myotis sodalis</i>	E
Junaluska salamander	<i>Eurycea junaluska</i>	FSC
Mountain blotched chub **	<i>Erimystax insignis eristigma</i>	FSC
Northern pine snake *	<i>Pituophis melanoleucus melanoleucus</i>	FSC
Olive darter	<i>Percina squamata</i>	FSC
Rafinesque's big-eared bat *	<i>Corynorhinus rafinesquii</i>	FSC
Seepage salamander	<i>Desmognathus aeneus</i>	FSC
Sicklefin redhorse	<i>Moxostoma</i> sp. 1	C

Invertebrate

a harvestman	<i>Fumontana deprehendor</i>	FSC
Cumberland bean (pearlymussel) %	<i>Villosa trabalis</i>	E
Diana fritillary (butterfly)	<i>Speyeria diana</i>	FSC
knotty rocksnail	<i>Elimia christyi</i>	FSC
Little-wing pearlymussel *	<i>Pegias fabula</i>	E
Parrish crayfish	<i>Cambarus parrishi</i>	FSC
Tan riffleshell ****	<i>Epioblasma florentina walkeri (=E. walkeri)</i>	E
Tennessee clubshell	<i>Pleurobema oviforme</i>	FSC
Tennessee heelsplitter *	<i>Lasmigona holstonia</i>	FSC

Vascular Plant

Mountain catchfly	<i>Silene ovata</i>	FSC
Small whorled pogonia	<i>Isotria medeoloides</i>	T
White fringless orchid *	<i>Platanthera integrilabia</i>	C

Nonvascular plant

a liverwort	<i>Plagiochila sullivanii</i> var. <i>sullivanii</i>	FSC
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## Chowan County

*Species*

Vertebrate

American eel	<i>Anguilla rostrata</i>	FSC
Bald eagle *	<i>Haliaeetus leucocephalus</i>	T
Rafinesque's big-eared bat	<i>Corynorhinus rafinesquii</i>	FSC
Southeastern myotis	<i>Myotis austroriparius</i>	FSC

Vascular Plant

Raven's boxseed *	<i>Ludwigia ravenii</i>	FSC
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## Clay County

### Species

#### Vertebrate

Appalachian cottontail	<i>Sylvilagus obscurus</i>	FSC
Bog turtle	<i>Clemmys muhlenbergii</i>	T (S/A)
Cerulean warbler	<i>Dendroica cerulea</i>	FSC
Eastern small-footed bat	<i>Myotis leibii</i>	FSC
Hellbender	<i>Cryptobranchus alleganiensis</i>	FSC
Junaluska salamander	<i>Eurycea junaluska</i>	FSC
Mountain blotched chub **	<i>Erimystax insignis eristigma</i>	FSC
Northern pine snake **	<i>Pituophis melanoleucus melanoleucus</i>	FSC
Red crossbill (Southern Appalachian) %	<i>Loxia curvirostra</i>	FSC
Seepage salamander *	<i>Desmognathus aeneus</i>	FSC
Sicklefin redhorse	<i>Moxostoma</i> sp. 1	C
Southeastern myotis	<i>Myotis austroriparius</i>	FSC
Southern Appalachian black-capped chickadee	<i>Poecile atricapillus praticus</i>	FSC
Southern water shrew *	<i>Sorex palustris punctulatus</i>	FSC
Yellow-bellied sapsucker (Southern Appalachian population) *	<i>Sphyrapicus varius appalachiensis</i>	FSC

#### Invertebrate

Diana fritillary (butterfly)	<i>Speyeria diana</i>	FSC
Parrish crayfish	<i>Cambarus parrishi</i>	FSC
Southern Tawny Crescent butterfly	<i>Phyciodes batesii maconensis</i>	FSC

#### Vascular Plant

Alabama least trillium	<i>Trillium pusillum</i> var. <i>ozarkanum</i>	FSC
Buck Creek serpentine barren aster	<i>Symphiotrichum rhiannon</i>	FSC
Butternut	<i>Juglans cinerea</i>	FSC
Darlington's spurge	<i>Euphorbia purpurea</i>	FSC
Fraser fir	<i>Abies fraseri</i>	FSC
Green pitcherplant	<i>Sarracenia oreophila</i>	E
Large-leaved Grass-of-Parnassus	<i>Parnassia grandifolia</i>	FSC
New Jersey rush	<i>Juncus caesariensis</i>	FSC

#### Nonvascular plant

a liverwort *	<i>Plagiochila sullivantii</i> var. <i>sullivantii</i>	FSC
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## COMMON NAME

## SCIENTIFIC NAME

## STATUS

**Cleveland County***Species*Vascular Plant

Dwarf-flowered heartleaf	<i>Hexastylis naniflora</i>	T
Gray's saxifrage	<i>Saxifraga caroliniana</i>	FSC
Sweet pinesap	<i>Monotropis odorata</i>	FSC
Torrey's Mountain-mint *	<i>Pycnanthemum torrei</i>	FSC

**Columbus County***Critical Habitat*Vertebrate

Waccamaw silverside	<i>Menidia extensa</i>	T
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Lake Waccamaw in its entirety to mean high water level, and Big Creek from its mouth at Lake Waccamaw upstream approximately 0.6 kilometer (0.4 mile) to where the creek is crossed by County Road 1947. Constituent elements include high quality clear open water, with a neutral pH and clean substrate. April 8, 1987 Federal Register, 52: 11277-11286.

*Species*Vertebrate

American alligator	<i>Alligator mississippiensis</i>	T (S/A)
American eel	<i>Anguilla rostrata</i>	FSC
Bachman's sparrow	<i>Aimophila aestivalis</i>	FSC
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Broadtail madtom *	<i>Noturus</i> sp. cf. <i>leptacanthus</i>	FSC
Carolina pygmy sunfish	<i>Elassoma boehlkei</i>	FSC
Eastern Henslow's sparrow	<i>Ammodramus henslowii susurrans</i>	FSC
Mimic glass lizard *	<i>Ophisaurus mimicus</i>	FSC
Rafinesque's big-eared bat *	<i>Corynorhinus rafinesquii</i>	FSC
Red-cockaded woodpecker	<i>Picoides borealis</i>	E
Shortnose sturgeon	<i>Acipenser brevirostrum</i>	E
Southeastern myotis	<i>Myotis austroriparius</i>	FSC
Waccamaw darter	<i>Etheostoma perlongum</i>	FSC
Waccamaw killifish	<i>Fundulus waccamensis</i>	FSC
Waccamaw silverside	<i>Menidia extensa</i>	T
Wood stork	<i>Mycteria americana</i>	E
<u>Invertebrate</u>		
Bronze clubtail **	<i>Stylurus (=Gomphus) townesi</i>	FSC
Cape Fear threetooth *	<i>Triodopsis soelneri</i>	FSC
Savannah lilliput	<i>Toxolasma pullus</i>	FSC
Waccamaw fatmucket	<i>Lampsilis fullerkati</i>	FSC

COMMON NAME	SCIENTIFIC NAME	STATUS
Waccamaw spike	<i>Elliptio waccamawensis</i>	FSC
Yellow lampmussel	<i>Lampsilis cariosa</i>	FSC
<u>Vascular Plant</u>		
Carolina bogmint	<i>Macbridea caroliniana</i>	FSC
Carolina grass-of-parnassus	<i>Parnassia caroliniana</i>	FSC
Carolina lead-plant	<i>Amorpha georgiana</i> var. <i>confusa</i>	FSC
Cooley's meadowrue	<i>Thalictrum cooleyi</i>	E
Grassleaf arrowhead	<i>Sagittaria weatherbiana</i>	FSC
Harper's fimbriistylis	<i>Fimbristylis perpusilla</i>	FSC
Large-leaved Grass-of-Parnassus	<i>Parnassia grandifolia</i>	FSC
Pineland plantain	<i>Plantago sparsiflora</i>	FSC
Raven's boxseed	<i>Ludwigia ravenii</i>	FSC
Rough-leaved loosestrife *	<i>Lysimachia asperulaefolia</i>	E
Spring-flowering goldenrod	<i>Solidago verna</i>	FSC
Swamp forest beakrush	<i>Rhynchospora decurrens</i>	FSC
Venus' fly-trap	<i>Dionaea muscipula</i>	FSC
Wireleaf dropseed	<i>Sporobolus teretifolius sensu stricto</i>	FSC

## Craven County

### *Species*

#### Vertebrate

American alligator	<i>Alligator mississippiensis</i>	T (S/A)
American eel	<i>Anguilla rostrata</i>	FSC
Bachman's sparrow	<i>Aimophila aestivalis</i>	FSC
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Black rail	<i>Laterallus jamaicensis</i>	FSC
Black-throated green warbler	<i>Dendroica virens waynei</i>	FSC
Bridle shiner	<i>Notropis bifrenatus</i>	FSC
Carolina madtom	<i>Noturus furiosus</i>	FSC
Leatherback sea turtle *	<i>Dermochelys coriacea</i>	E
Red-cockaded woodpecker	<i>Picoides borealis</i>	E
Southern hognose snake **	<i>Heterodon simus</i>	FSC
West Indian manatee	<i>Trichechus manatus</i>	E

#### Invertebrate

Annointed sallow noctuid moth **	<i>Pyreferra ceromatica</i>	FSC
Buchholz's dart moth **	<i>Agrotis buchholzi</i>	FSC

COMMON NAME	SCIENTIFIC NAME	STATUS
<u>Vascular Plant</u>		
Godfrey's sandwort	<i>Minuartia godfreyi</i>	FSC
Grassleaf arrowhead	<i>Sagittaria weatherbiana</i>	FSC
Loose watermilfoil *	<i>Myriophyllum laxum</i>	FSC
Pondspice	<i>Litsea aestivalis</i>	FSC
Raven's boxseed *	<i>Ludwigia ravenii</i>	FSC
Sensitive joint-vetch *	<i>Aeschynomene virginica</i>	T
Spring-flowering goldenrod	<i>Solidago verna</i>	FSC
Venus' fly-trap	<i>Dionaea muscipula</i>	FSC
Wagner's spleenwort	<i>Asplenium heteroresiliens</i>	FSC

## Cumberland County

### Species

#### Vertebrate

American alligator	<i>Alligator mississippiensis</i>	T (S/A)
American eel	<i>Anguilla rostrata</i>	FSC
Bachman's sparrow	<i>Aimophila aestivalis</i>	FSC
Black-throated green warbler	<i>Dendroica virens waynei</i>	FSC
Broadtail madtom **	<i>Noturus</i> sp. cf. <i>leptacanthus</i>	FSC
Carolina crawfish frog	<i>Rana capito capito</i>	FSC
Northern pine snake **	<i>Pituophis melanoleucus melanoleucus</i>	FSC
Red-cockaded woodpecker	<i>Picoides borealis</i>	E
Sandhills chub	<i>Semotilus lumbee</i>	FSC
Southern hognose snake **	<i>Heterodon simus</i>	FSC

#### Invertebrate

Atlantic pigtoe	<i>Fusconaia masoni</i>	FSC
Saint Francis' satyr butterfly	<i>Neonympha mitchellii francisci</i>	E
Yellow lampmussel	<i>Lampsilis cariosa</i>	FSC

#### Vascular Plant

American chaffseed	<i>Schwalbea americana</i>	E
Awned meadowbeauty *	<i>Rhexia aristosa</i>	FSC
Bog oatgrass	<i>Danthonia epilis</i>	FSC
Bog spicebush	<i>Lindera subcoriacea</i>	FSC
Boykin's lobelia	<i>Lobelia boykinii</i>	FSC
Carolina grass-of-parnassus	<i>Parnassia caroliniana</i>	FSC
Cuthbert turtlehead	<i>Chelone cuthbertii</i>	FSC
False coco *	<i>Pteroglossaspis ecristata</i>	FSC

COMMON NAME	SCIENTIFIC NAME	STATUS
Georgia lead-plant	<i>Amorpha georgiana</i> var. <i>georgiana</i>	FSC
Loose watermilfoil	<i>Myriophyllum laxum</i>	FSC
Michaux's sumac	<i>Rhus michauxii</i>	E
Pickering's dawnflower	<i>Stylisma pickeringii</i> var. <i>pickeringii</i>	FSC
Pondberry	<i>Lindera melissifolia</i>	E
Pondspice	<i>Litsea aestivalis</i>	FSC
Roughleaf yellow-eyed grass	<i>Xyris scabrifolia</i>	FSC
Rough-leaved loosestrife	<i>Lysimachia asperulaefolia</i>	E
Sandhills bog lily	<i>Lilium pyrophilum</i>	FSC
Sandhills milk-vetch	<i>Astragalus michauxii</i>	FSC
Spring-flowering goldenrod	<i>Solidago verna</i>	FSC
Venus' fly-trap	<i>Dionaea muscipula</i>	FSC
Well's sandhill pixie-moss	<i>Pyxidantha barbulata</i> var. <i>brevifolia</i>	FSC
<u>Nonvascular plant</u>		
Savanna campylopus	<i>Campylopus carolinae</i>	FSC

## Currituck County

### *Species*

#### Vertebrate

American eel	<i>Anguilla rostrata</i>	FSC
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Black rail	<i>Laterallus jamaicensis</i>	FSC
Leatherback sea turtle *	<i>Dermochelys coriacea</i>	E
Loggerhead sea turtle	<i>Caretta caretta</i>	T
Piping plover	<i>Charadrius melodus</i>	T
Red-cockaded woodpecker *	<i>Picoides borealis</i>	E
Shortnose sturgeon *	<i>Acipenser brevirostrum</i>	E
West Indian manatee	<i>Trichechus manatus</i>	E

#### Vascular Plant

Grassleaf arrowhead	<i>Sagittaria weatherbiana</i>	FSC
Seabeach amaranth	<i>Amaranthus pumilus</i>	T
Virginia least trillium	<i>Trillium pusillum</i> var. <i>virginianum</i>	FSC

**Dare County***Critical Habitat*Vertebrate

Piping plover

*Charadrius melodus*

T

See the Federal Register for a description of the primary constituent elements essential for the conservation of wintering piping plovers within the designated units. This document also contains a map and a description of each designated unit. Note: Units 1, 2, 4, and 5 (including portions of Dare and Hyde Counties) of the designated Critical Habitat were vacated by court order and remanded to the USFWS. Thus, these units no longer exist. July 10, 2001, Federal Register, 66:36038- 36136.

*Species*Vertebrate

American alligator

*Alligator mississippiensis*

T (S/A)

American eel

*Anguilla rostrata*

FSC

Bald eagle

*Haliaeetus leucocephalus*

T

Black rail

*Laterallus jamaicensis*

FSC

Black-throated green warbler

*Dendroica virens waynei*

FSC

Buxton Woods white-footed mouse

*Peromyscus leucopus* ssp. 1

FSC

Green sea turtle

*Chelonia mydas* (incl. *agassizi*)

T

Hawksbill (=carey) sea turtle

*Eretmochelys imbricata*

E

Kemp's (=Atlantic) ridley sea turtle

*Lepidochelys kempii*

E

Leatherback sea turtle

*Dermochelys coriacea*

E

Loggerhead sea turtle

*Caretta caretta*

T

Northern diamondback terrapin

*Malaclemys terrapin terrapin*

FSC

Piping plover

*Charadrius melodus*

T

Rafinesque's big-eared bat

*Corynorhinus rafinesquii*

FSC

Red wolf

*Canis rufus*

E (XN)

Red-cockaded woodpecker

*Picoides borealis*

E

Roseate tern

*Sterna dougallii dougallii*

E

Shortnose sturgeon

*Acipenser brevirostrum*

E

West Indian manatee

*Trichechus manatus*

E

Vascular Plant

Dune blue curls

*Trichostema* sp. 1

FSC

Seabeach amaranth

*Amaranthus pumilus*

T

## COMMON NAME

## SCIENTIFIC NAME

## STATUS

**Davidson County***Species*Vertebrate

Bald eagle	<i>Haliaeetus leucocephalus</i>	T
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Bog turtle %	<i>Clemmys muhlenbergii</i>	T (S/A)
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Carolina darter **	<i>Etheostoma collis collis</i>	FSC
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Eastern small-footed bat	<i>Myotis leibii</i>	FSC
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Vascular Plant

Georgia aster	<i>Symphytotrichum georgianum</i>	C
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Prairie birdsfoot-trefoil	<i>Lotus unifoliolatus</i> var. <i>helleri</i>	FSC
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Schweinitz's sunflower	<i>Helianthus schweinitzii</i>	E
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**Davie County***Species*Vertebrate

Robust redbhorse *	<i>Moxostoma robustum</i>	FSC
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Invertebrate

Cherokee clubtail **	<i>Gomphus consanguis</i>	FSC
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Yellow lampmussel	<i>Lampsilis cariosa</i>	FSC
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Vascular Plant

Creamy tick-trefoil *	<i>Desmodium ochroleucum</i>	FSC
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Michaux's sumac	<i>Rhus michauxii</i>	E
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Prairie birdsfoot-trefoil *	<i>Lotus unifoliolatus</i> var. <i>helleri</i>	FSC
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**Duplin County***Species*Vertebrate

American alligator *	<i>Alligator mississippiensis</i>	T (S/A)
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American eel	<i>Anguilla rostrata</i>	FSC
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Broadtail madtom	<i>Noturus</i> sp. cf. <i>leptacanthus</i>	FSC
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Rafinesque's big-eared bat	<i>Corynorhinus rafinesquii</i>	FSC
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Red-cockaded woodpecker	<i>Picoides borealis</i>	E
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Southern hognose snake **	<i>Heterodon simus</i>	FSC
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Vascular Plant

American chaffseed	<i>Schwalbea americana</i>	E
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Grassleaf arrowhead	<i>Sagittaria weatherbiana</i>	FSC
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Raven's boxseed *	<i>Ludwigia ravenii</i>	FSC
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Venus' fly-trap	<i>Dionaea muscipula</i>	FSC
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## COMMON NAME

## SCIENTIFIC NAME

## STATUS

**Durham County***Species*Vertebrate

American eel	<i>Anguilla rostrata</i>	FSC
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Carolina darter **	<i>Etheostoma collis lepidinion</i>	FSC
Carolina madtom	<i>Noturus furiosus</i>	FSC
Pinewoods shiner **	<i>Lythrurus matutinus</i>	FSC
Roanoke bass	<i>Ambloplites cavifrons</i>	FSC

Invertebrate

Atlantic pigtoe	<i>Fusconaia masoni</i>	FSC
Green floater	<i>Lasmigona subviridis</i>	FSC
Panhandle pebblesnail	<i>Somatogyus virginicus</i>	FSC
Septima's clubtail *	<i>Gomphus septima</i>	FSC
Yellow lampmussel	<i>Lampsilis cariosa</i>	FSC

Vascular Plant

Butternut *	<i>Juglans cinerea</i>	FSC
Michaux's sumac *	<i>Rhus michauxii</i>	E
Smooth coneflower	<i>Echinacea laevigata</i>	E
Sweet pinesap	<i>Monotropsis odorata</i>	FSC
Tall larkspur	<i>Delphinium exaltatum</i>	FSC

**Edgecombe County***Species*Vertebrate

American eel	<i>Anguilla rostrata</i>	FSC
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Carolina madtom	<i>Noturus furiosus</i>	FSC
Eastern Henslow's sparrow	<i>Ammodramus henslowii susurrans</i>	FSC
Pinewoods shiner	<i>Lythrurus matutinus</i>	FSC
Red-cockaded woodpecker *	<i>Picoides borealis</i>	E
Roanoke bass **	<i>Ambloplites cavifrons</i>	FSC
Southern hognose snake **	<i>Heterodon simus</i>	FSC

Invertebrate

Atlantic pigtoe	<i>Fusconaia masoni</i>	FSC
Green floater	<i>Lasmigona subviridis</i>	FSC
Tar River spiny mussel	<i>Elliptio steinstansana</i>	E

COMMON NAME	SCIENTIFIC NAME	STATUS
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Yellow lampmussel	<i>Lampsilis cariosa</i>	FSC
Yellow lance	<i>Elliptio lanceolata</i>	FSC

### Forsyth County

*Species*

Vertebrate

Bog turtle	<i>Clemmys muhlenbergii</i>	T (S/A)
Red-cockaded woodpecker *	<i>Picoides borealis</i>	E

Invertebrate

Brook floater **	<i>Alasmidonta varicosa</i>	FSC
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Vascular Plant

Small-anthered bittercress *	<i>Cardamine micranthera</i>	E
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### Franklin County

*Species*

Vertebrate

American eel	<i>Anguilla rostrata</i>	FSC
Carolina madtom	<i>Noturus furiosus</i>	FSC
Pinewoods shiner **	<i>Lythrurus matutinus</i>	FSC
Roanoke bass **	<i>Ambloplites cavifrons</i>	FSC

Invertebrate

Atlantic pigtoe	<i>Fusconaia masoni</i>	FSC
Dwarf wedgemussel	<i>Alasmidonta heterodon</i>	E
Tar River spiny mussel	<i>Elliptio steinstansana</i>	E
Yellow lampmussel	<i>Lampsilis cariosa</i>	FSC
Yellow lance	<i>Elliptio lanceolata</i>	FSC

Vascular Plant

Michaux's sumac	<i>Rhus michauxii</i>	E
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### Gaston County

*Species*

Vertebrate

Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Bog turtle	<i>Clemmys muhlenbergii</i>	T (S/A)

Vascular Plant

Georgia aster	<i>Symphotrichum georgianum</i>	C
Schweinitz's sunflower	<i>Helianthus schweinitzii</i>	E
Shoals spiderlily %	<i>Hymenocallis coronaria</i>	FSC

## COMMON NAME

## SCIENTIFIC NAME

## STATUS

**Gates County***Species*Vertebrate

American alligator *	<i>Alligator mississippiensis</i>	T (S/A)
American eel	<i>Anguilla rostrata</i>	FSC
Black-throated green warbler	<i>Dendroica virens waynei</i>	FSC
Eastern Henslow's sparrow	<i>Ammodramus henslowii susurrans</i>	FSC
Rafinesque's big-eared bat	<i>Corynorhinus rafinesquii</i>	FSC
Red-cockaded woodpecker	<i>Picoides borealis</i>	E
Southeastern myotis	<i>Myotis austroriparius</i>	FSC
<u>Vascular Plant</u>		
Grassleaf arrowhead	<i>Sagittaria weatherbiana</i>	FSC
Pondspice	<i>Litsea aestivalis</i>	FSC
Raven's boxseed *	<i>Ludwigia ravenii</i>	FSC
Virginia least trillium	<i>Trillium pusillum</i> var. <i>virginianum</i>	FSC

**Graham County***Critical Habitat*Invertebrate

Appalachian elktoe	<i>Alasmidonta raveneliana</i>	E
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The main stem of the Cheoah River (Little Tennessee River system), from the Santeetlah Dam, downstream to its confluence with the Little Tennessee River. Within these areas, the primary constituent elements include: (i) Permanent, flowing, cool, clean water; (ii) Geomorphically stable stream channels and banks; (iii) Pool, riffle, and run sequences within the channel; (iv) Stable sand, gravel, cobble, boulder, and bedrock substrates with no more than low amounts of fine sediment; (v) Moderate to high stream gradient; (vi) Periodic natural flooding; and (vii) Fish hosts, with adequate living, foraging, and spawning areas for them. September 27, 2002, Federal Register, 67:61016-61040.

*Species*Vertebrate

Appalachian cottontail	<i>Sylvilagus obscurus</i>	FSC
Bog turtle	<i>Clemmys muhlenbergii</i>	T (S/A)
Carolina northern flying squirrel	<i>Glaucomys sabrinus coloratus</i>	E
Cerulean warbler	<i>Dendroica cerulea</i>	FSC
Eastern small-footed bat	<i>Myotis leibii</i>	FSC
Hellbender	<i>Cryptobranchus alleganiensis</i>	FSC
Indiana bat (S)	<i>Myotis sodalis</i>	E
Junaluska salamander	<i>Eurycea junaluska</i>	FSC
Northern pine snake *	<i>Pituophis melanoleucus melanoleucus</i>	FSC
Northern saw-whet owl (Southern	<i>Aegolius acadicus</i> pop. 1	FSC

COMMON NAME	SCIENTIFIC NAME	STATUS
Appalachian population)		
Rafinesque's big-eared bat	<i>Corynorhinus rafinesquii</i>	FSC
Red crossbill (Southern Appalachian) %	<i>Loxia curvirostra</i>	FSC
Seepage salamander	<i>Desmognathus aeneus</i>	FSC
Southern Appalachian black-capped chickadee	<i>Poecile atricapillus praticus</i>	FSC
Yellow-bellied sapsucker (Southern Appalachian population) *	<i>Sphyrapicus varius appalachiensis</i>	FSC
<u>Invertebrate</u>		
a harvestman	<i>Fumontana deprehendor</i>	FSC
Appalachian elktoe	<i>Alasmidonta raveneliana</i>	E
Diana fritillary (butterfly)	<i>Speyeria diana</i>	FSC
Southern Tawny Crescent butterfly	<i>Phyciodes batesii maconensis</i>	FSC
<u>Vascular Plant</u>		
Butternut	<i>Juglans cinerea</i>	FSC
Darlington's spurge	<i>Euphorbia purpurea</i>	FSC
Gray's saxifrage	<i>Saxifraga caroliniana</i>	FSC
Mountain bitter cress	<i>Cardamine clematitis</i>	FSC
Mountain catchfly	<i>Silene ovata</i>	FSC
Smoky Mountains manna grass	<i>Glyceria nubigena</i>	FSC
Virginia spiraea	<i>Spiraea virginiana</i>	T
<u>Nonvascular plant</u>		
a liverwort *	<i>Porella wataugensis</i>	FSC
a liverwort	<i>Plagiochila sullivantii</i> var. <i>sullivantii</i>	FSC
a liverwort	<i>Plagiochila sharpii</i>	FSC
<u>Lichen</u>		
Rock gnome lichen	<i>Gymnoderma lineare</i>	E

## Granville County

### Species

#### Vertebrate

American eel	<i>Anguilla rostrata</i>	FSC
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Carolina darter	<i>Etheostoma collis lepidinon</i>	FSC
Carolina madtom	<i>Noturus furiosus</i>	FSC
Pinewoods shiner **	<i>Lythrurus matutinus</i>	FSC
Roanoke bass	<i>Ambloplites cavifrons</i>	FSC

#### Invertebrate

Atlantic pigtoe	<i>Fusconaia masoni</i>	FSC
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COMMON NAME	SCIENTIFIC NAME	STATUS
Brook floater	<i>Alasmidonta varicosa</i>	FSC
Chowanoke crayfish **	<i>Orconectes virginiensis</i>	FSC
Dwarf wedgemussel	<i>Alasmidonta heterodon</i>	E
Green floater	<i>Lasmigona subviridis</i>	FSC
Yellow lampmussel	<i>Lampsilis cariosa</i>	FSC
Yellow lance	<i>Elliptio lanceolata</i>	FSC
<u>Vascular Plant</u>		
Butner's barbara's-buttons	<i>Marshallia</i> sp.	FSC
Harperella	<i>Ptilimnium nodosum</i>	E
Prairie birdsfoot-trefoil	<i>Lotus unifoliolatus</i> var. <i>helleri</i>	FSC
Smooth coneflower	<i>Echinacea laevigata</i>	E
Smooth-seeded hairy nutrush	<i>Scleria</i> sp. 1	FSC
Tall larkspur	<i>Delphinium exaltatum</i>	FSC
Torrey's Mountain-mint *	<i>Pycnanthemum torrei</i>	FSC
<b>Greene County</b>		
<i>Species</i>		
<u>Vertebrate</u>		
American eel	<i>Anguilla rostrata</i>	FSC
Carolina madtom	<i>Noturus furiosus</i>	FSC
Pinewoods shiner **	<i>Lythrurus matutinus</i>	FSC
Red-cockaded woodpecker %	<i>Picoides borealis</i>	E
<b>Guilford County</b>		
<i>Species</i>		
<u>Vertebrate</u>		
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Carolina darter	<i>Etheostoma collis lepidinion</i>	FSC
<b>Halifax County</b>		
<i>Species</i>		
<u>Vertebrate</u>		
American eel	<i>Anguilla rostrata</i>	FSC
Bachman's sparrow *	<i>Aimophila aestivalis</i>	FSC
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Carolina madtom	<i>Noturus furiosus</i>	FSC
Cerulean warbler	<i>Dendroica cerulea</i>	FSC
Red-cockaded woodpecker *	<i>Picoides borealis</i>	E
Roanoke bass	<i>Ambloplites cavifrons</i>	FSC

COMMON NAME	SCIENTIFIC NAME	STATUS
Southeastern myotis	<i>Myotis austroriparius</i>	FSC
<u>Invertebrate</u>		
Atlantic pigtoe	<i>Fusconaia masoni</i>	FSC
Chowanoke crayfish	<i>Orconectes virginianus</i>	FSC
Dwarf wedgemussel	<i>Alasmidonta heterodon</i>	E
Green floater	<i>Lasmigona subviridis</i>	FSC
Tar River spiny mussel	<i>Elliptio steinstansana</i>	E
Yellow lampmussel	<i>Lampsilis cariosa</i>	FSC
Yellow lance	<i>Elliptio lanceolata</i>	FSC
<u>Vascular Plant</u>		
Bog St. John's-wort *	<i>Hypericum adpressum</i>	FSC

## Harnett County

### Species

#### Vertebrate

American eel	<i>Anguilla rostrata</i>	FSC
Bachman's sparrow	<i>Aimophila aestivalis</i>	FSC
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Cape Fear shiner	<i>Notropis mekistocholas</i>	E
Carolina redbreast	<i>Moxostoma</i> sp. 2	FSC
Northern pine snake **	<i>Pituophis melanoleucus melanoleucus</i>	FSC
Red-cockaded woodpecker	<i>Picoides borealis</i>	E
Sandhills chub	<i>Semotilus lumbee</i>	FSC

#### Invertebrate

Atlantic pigtoe	<i>Fusconaia masoni</i>	FSC
Septima's clubtail	<i>Gomphus septima</i>	FSC
Yellow lampmussel	<i>Lampsilis cariosa</i>	FSC

#### Vascular Plant

Bog oatgrass	<i>Danthonia epilis</i>	FSC
Buttercup phacelia	<i>Phacelia covillei</i>	FSC
Carolina bogmint	<i>Macbridea caroliniana</i>	FSC
Carolina grass-of-parnassus	<i>Parnassia caroliniana</i>	FSC
Georgia lead-plant	<i>Amorpha georgiana</i> var. <i>georgiana</i>	FSC
Pickering's dawnflower	<i>Stylisma pickeringii</i> var. <i>pickeringii</i>	FSC
Ravine sedge	<i>Carex impressinervis</i>	FSC
Roughleaf yellow-eyed grass	<i>Xyris scabrifolia</i>	FSC
Rough-leaved loosestrife	<i>Lysimachia asperulaefolia</i>	E
Sandhills bog lily	<i>Lilium pyrophilum</i>	FSC

COMMON NAME	SCIENTIFIC NAME	STATUS
Sandhills milk-vetch	<i>Astragalus michauxii</i>	FSC
Spring-flowering goldenrod	<i>Solidago verna</i>	FSC
Sun-facing coneflower *	<i>Rudbeckia heliopsis</i>	FSC
Well's sandhill pixie-moss	<i>Pyxidantha barbulate</i> var. <i>brevifolia</i>	FSC

## Haywood County

### Critical Habitat

#### Invertebrate

Appalachian elktoe	<i>Alasmidonta raveneliana</i>	E
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The main stem of the West Fork Pigeon River (French Broad River system), from the confluence of the Little East Fork Pigeon River, downstream to the confluence of the East Fork Pigeon River, and the main stem of the Pigeon River, from the confluence of the West Fork Pigeon River and the East Fork Pigeon River, downstream to the N.C. Highway 215 Bridge crossing, south of Canton, North Carolina. Within these areas, the primary constituent elements include: (i) Permanent, flowing, cool, clean water; (ii) Geomorphically stable stream channels and banks; (iii) Pool, riffle, and run sequences within the channel; (iv) Stable sand, gravel, cobble, boulder, and bedrock substrates with no more than low amounts of fine sediment; (v) Moderate to high stream gradient; (vi) Periodic natural flooding; and (vii) Fish hosts, with adequate living, foraging, and spawning areas for them. September 27, 2002, Federal Register, 67:61016-61040.

### Species

#### Vertebrate

Allegheny woodrat	<i>Neotoma magister</i>	FSC
Appalachian Bewick's wren *	<i>Thryomanes bewickii altus</i>	FSC
Appalachian cottontail	<i>Sylvilagus obscurus</i>	FSC
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Bog turtle %	<i>Clemmys muhlenbergii</i>	T (S/A)
Carolina northern flying squirrel	<i>Glaucomys sabrinus coloratus</i>	E
Cerulean warbler	<i>Dendroica cerulea</i>	FSC
Eastern puma (=cougar) *	<i>Puma concolor cougar</i>	E
Eastern small-footed bat	<i>Myotis leibii</i>	FSC
Gray bat	<i>Myotis grisescens</i>	E
Hellbender	<i>Cryptobranchus alleganiensis</i>	FSC
Indiana bat *	<i>Myotis sodalis</i>	E
Northern saw-whet owl (Southern Appalachian population)	<i>Aegolius acadicus</i> pop. 1	FSC
Olive-sided flycatcher	<i>Contopus cooperi</i>	FSC
Pygmy salamander	<i>Desmognathus wrighti</i>	FSC
Rafinesque's big-eared bat	<i>Corynorhinus rafinesquii</i>	FSC
Red crossbill (Southern Appalachian)	<i>Loxia curvirostra</i>	FSC
Southern Appalachian black-capped	<i>Poecile atricapillus praticus</i>	FSC

COMMON NAME	SCIENTIFIC NAME	STATUS
chickadee		
Southern Appalachian eastern woodrat	<i>Neotoma floridana haematorea</i>	FSC
Southern rock vole	<i>Microtus chrotorrhinus carolinensis</i>	FSC
Southern water shrew *	<i>Sorex palustris punctulatus</i>	FSC
Yellow-bellied sapsucker (Southern Appalachian population)	<i>Sphyrapicus varius appalachiensis</i>	FSC
<u>Invertebrate</u>		
Appalachian elktoe	<i>Alasmidonta raveneliana</i>	E
Diana fritillary (butterfly)	<i>Speyeria diana</i>	FSC
Southern Tawny Crescent butterfly	<i>Phyciodes batesii maconensis</i>	FSC
Spruce-fir moss spider %	<i>Microhexura montivaga</i>	E
<u>Vascular Plant</u>		
Alabama least trillium *	<i>Trillium pusillum</i> var. <i>ozarkanum</i>	FSC
Blue Ridge Ragwort	<i>Packera millefolium</i>	FSC
Butternut	<i>Juglans cinerea</i>	FSC
Darlington's spurge	<i>Euphorbia purpurea</i>	FSC
Fraser fir	<i>Abies fraseri</i>	FSC
Fraser's loosestrife **	<i>Lysimachia fraseri</i>	FSC
Gray's saxifrage	<i>Saxifraga caroliniana</i>	FSC
Large-leaved Grass-of-Parnassus	<i>Parnassia grandifolia</i>	FSC
Mountain bitter cress	<i>Cardamine clematitis</i>	FSC
Mountain catchfly	<i>Silene ovata</i>	FSC
Piratebush	<i>Buckleya distichophylla</i>	FSC
Rugel's ragwort	<i>Rugelia nudicaulis</i>	FSC
Small whorled pogonia	<i>Isotria medeoloides</i>	T
Smoky Mountains manna grass	<i>Glyceria nubigena</i>	FSC
Tall larkspur	<i>Delphinium exaltatum</i>	FSC
Torrey's Mountain-mint *	<i>Pycnanthemum torrei</i>	FSC
<u>Nonvascular plant</u>		
a liverwort *	<i>Sphenolobopsis pearsonii</i>	FSC
a liverwort *	<i>Plagiochila sharpii</i>	FSC
a liverwort *	<i>Plagiochila sullivantii</i> var. <i>sullivantii</i>	FSC
<u>Lichen</u>		
Rock gnome lichen	<i>Gymnoderma lineare</i>	E

## Henderson County

### Species

#### Vertebrate

Bog turtle	<i>Clemmys muhlenbergii</i>	T (S/A)
Eastern small-footed bat	<i>Myotis leibii</i>	FSC
Green salamander	<i>Aneides aeneus</i>	FSC
Hellbender	<i>Cryptobranchus alleganiensis</i>	FSC
Mountain blotched chub **	<i>Erimystax insignis eristigma</i>	FSC
Pygmy salamander	<i>Desmognathus wrighti</i>	FSC
Southern Appalachian eastern woodrat	<i>Neotoma floridana haematoreia</i>	FSC
Yellow-bellied sapsucker (Southern Appalachian population)	<i>Sphyrapicus varius appalachiensis</i>	FSC

#### Invertebrate

Appalachian elktoe	<i>Alasmidonta raveneliana</i>	E
Diana fritillary (butterfly)	<i>Speyeria diana</i>	FSC
French Broad crayfish **	<i>Cambarus reburus</i>	FSC
Oyster mussel ****	<i>Epioblasma capsaeformis</i>	E
Tennessee heelsplitter	<i>Lasmigona holstonia</i>	FSC

#### Vascular Plant

Blue Ridge Ragwort *	<i>Packera millefolium</i>	FSC
Bog asphodel *	<i>Narthecium americanum</i>	C
Bunched arrowhead	<i>Sagittaria fasciculata</i>	E
Butternut	<i>Juglans cinerea</i>	FSC
Fort Mountain sedge	<i>Carex communis</i> var. <i>amplisquama</i>	FSC
Fraser's loosestrife **	<i>Lysimachia fraseri</i>	FSC
French Broad heartleaf	<i>Hexastylis rhombiformis</i>	FSC
Gray's lily *	<i>Lilium grayi</i>	FSC
Large-flowered barbara's-buttons *	<i>Marshallia grandiflora</i>	FSC
Mountain catchfly	<i>Silene ovata</i>	FSC
Mountain heartleaf	<i>Hexastylis contracta</i>	FSC
Mountain sweet pitcherplant	<i>Sarracenia rubra</i> ssp. <i>jonesii</i>	E
New Jersey rush	<i>Juncus caesariensis</i>	FSC
Small whorled pogonia	<i>Isotria medeoloides</i>	T
Swamp pink	<i>Helonias bullata</i>	T
Sweet pinesap **	<i>Monotropis odorata</i>	FSC

COMMON NAME	SCIENTIFIC NAME	STATUS
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White fringless orchid *	<i>Platanthera integrilabia</i>	C
White irisette	<i>Sisyrinchium dichotomum</i>	E

## Hertford County

### Species

#### Vertebrate

American eel	<i>Anguilla rostrata</i>	FSC
Red-cockaded woodpecker *	<i>Picoides borealis</i>	E

#### Invertebrate

Chowanoke crayfish	<i>Orconectes virginienis</i>	FSC
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## Hoke County

### Species

#### Vertebrate

American alligator	<i>Alligator mississippiensis</i>	T (S/A)
American eel	<i>Anguilla rostrata</i>	FSC
Bachman's sparrow	<i>Aimophila aestivalis</i>	FSC
Carolina crawfish frog	<i>Rana capito capito</i>	FSC
Northern pine snake	<i>Pituophis melanoleucus melanoleucus</i>	FSC
Pinewoods darter	<i>Etheostoma mariae</i>	FSC
Rafinesque's big-eared bat **	<i>Corynorhinus rafinesquii</i>	FSC
Red-cockaded woodpecker	<i>Picoides borealis</i>	E
Sandhills chub	<i>Semotilus lumbee</i>	FSC
Southeastern myotis	<i>Myotis austroriparius</i>	FSC
Southern hognose snake	<i>Heterodon simus</i>	FSC

#### Invertebrate

Saint Francis' satyr butterfly	<i>Neonympha mitchellii francisci</i>	E
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#### Vascular Plant

American chaffseed	<i>Schwalbea americana</i>	E
Awned meadowbeauty	<i>Rhexia aristosa</i>	FSC
Bog spicebush	<i>Lindera subcoriacea</i>	FSC
Boykin's lobelia	<i>Lobelia boykinii</i>	FSC
Carolina grass-of-parnassus	<i>Parnassia caroliniana</i>	FSC
False coco	<i>Pteroglossaspis ecristata</i>	FSC
Georgia lead-plant	<i>Amorpha georgiana</i> var. <i>georgiana</i>	FSC
Hairy-peduncled beakrush	<i>Rhynchospora crinipes</i>	FSC
Loose watermilfoil	<i>Myriophyllum laxum</i>	FSC
Michaux's sumac	<i>Rhus michauxii</i>	E

COMMON NAME	SCIENTIFIC NAME	STATUS
Pickering's dawnflower	<i>Stylisma pickeringii</i> var. <i>pickeringii</i>	FSC
Pondspice *	<i>Litsea aestivalis</i>	FSC
Roughleaf yellow-eyed grass	<i>Xyris scabrifolia</i>	FSC
Rough-leaved loosestrife	<i>Lysimachia asperulaefolia</i>	E
Sandhills bog lily	<i>Lilium pyrophilum</i>	FSC
Sandhills milk-vetch	<i>Astragalus michauxii</i>	FSC
Spring-flowering goldenrod	<i>Solidago verna</i>	FSC
Venus' fly-trap	<i>Dionaea muscipula</i>	FSC
Well's sandhill pixie-moss	<i>Pyxidantha barbulate</i> var. <i>brevifolia</i>	FSC

## Hyde County

### Critical Habitat

#### Vertebrate

Piping plover

*Charadrius melodus*

T

See the Federal Register for a description of the primary constituent elements essential for the conservation of wintering piping plovers within the designated units. This document also contains a map and a description of each designated unit. Note: Units 1, 2, 4, and 5 (including portions of Dare and Hyde Counties) of the designated Critical Habitat were vacated by court order and remanded to the USFWS. Thus, these units no longer exist. July 10, 2001, Federal Register, 66:36038- 36136.

### Species

#### Vertebrate

American alligator	<i>Alligator mississippiensis</i>	T (S/A)
American eel	<i>Anguilla rostrata</i>	FSC
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Black rail	<i>Laterallus jamaicensis</i>	FSC
Black-throated green warbler *	<i>Dendroica virens waynei</i>	FSC
Green sea turtle **	<i>Chelonia mydas</i> (incl. <i>agassizi</i> )	T
Hawksbill (=carey) sea turtle	<i>Eretmochelys imbricata</i>	E
Kemp's (=Atlantic) ridley sea turtle	<i>Lepidochelys kempii</i>	E
Leatherback sea turtle	<i>Dermochelys coriacea</i>	E
Loggerhead sea turtle	<i>Caretta caretta</i>	T
Piping plover	<i>Charadrius melodus</i>	T
Red wolf	<i>Canis rufus</i>	E (XN)
Red-cockaded woodpecker	<i>Picoides borealis</i>	E
Shortnose sturgeon *	<i>Acipenser brevirostrum</i>	E
West Indian manatee	<i>Trichechus manatus</i>	E

COMMON NAME	SCIENTIFIC NAME	STATUS
<u>Vascular Plant</u>		
Dune blue curls	<i>Trichostema</i> sp. 1	FSC
Grassleaf arrowhead	<i>Sagittaria weatherbiana</i>	FSC
Seabeach amaranth	<i>Amaranthus pumilus</i>	T
Sensitive joint-vetch	<i>Aeschynomene virginica</i>	T

## Iredell County

### Species

#### Vertebrate

Allegheny woodrat	<i>Neotoma magister</i>	FSC
Bog turtle *	<i>Clemmys muhlenbergii</i>	T (S/A)

#### Vascular Plant

Prairie birdsfoot-trefoil *	<i>Lotus unifoliolatus</i> var. <i>helleri</i>	FSC
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## Jackson County

### Critical Habitat

#### Invertebrate

Appalachian elktoe	<i>Alasmidonta raveneliana</i>	E
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The main stem of the Tuckasegee River (Little Tennessee River system), from the N.C. State Route 1002 Bridge in Cullowhee, Jackson County, North Carolina, downstream to the N.C. Highway 19 Bridge, north of Bryson City, Swain County, North Carolina. Within these areas, the primary constituent elements include: (i) Permanent, flowing, cool, clean water; (ii) Geomorphically stable stream channels and banks; (iii) Pool, riffle, and run sequences within the channel; (iv) Stable sand, gravel, cobble, boulder, and bedrock substrates with no more than low amounts of fine sediment; (v) Moderate to high stream gradient; (vi) Periodic natural flooding; and (vii) Fish hosts, with adequate living, foraging, and spawning areas for them. September 27, 2002, Federal Register, 67:61016-61040.

### Species

#### Vertebrate

Appalachian Bewick's wren *	<i>Thryomanes bewickii altus</i>	FSC
Bog turtle %	<i>Clemmys muhlenbergii</i>	T (S/A)
Carolina northern flying squirrel	<i>Glaucomys sabrinus coloratus</i>	E
Eastern small-footed bat	<i>Myotis leibii</i>	FSC
Green salamander	<i>Aneides aeneus</i>	FSC
Hellbender	<i>Cryptobranchus alleganiensis</i>	FSC
Indiana bat *	<i>Myotis sodalis</i>	E
Northern pine snake	<i>Pituophis melanoleucus melanoleucus</i>	FSC
Northern saw-whet owl (Southern Appalachian population)	<i>Aegolius acadicus</i> pop. 1	FSC
Olive darter	<i>Percina squamata</i>	FSC
Pygmy salamander	<i>Desmognathus wrighti</i>	FSC

COMMON NAME	SCIENTIFIC NAME	STATUS
Red crossbill (Southern Appalachian)	<i>Loxia curvirostra</i>	FSC
Sicklefin redhorse	<i>Moxostoma</i> sp. 1	C
Smoky dace	<i>Clinostomus funduloides</i> ssp.	FSC
Southern Appalachian black-capped chickadee	<i>Poecile atricapillus praticus</i>	FSC
Southern Appalachian eastern woodrat	<i>Neotoma floridana haematoreia</i>	FSC
Southern rock vole *	<i>Microtus chrotorrhinus carolinensis</i>	FSC
wounded darter	<i>Etheostoma vulneratum</i>	FSC
Yellow-bellied sapsucker (Southern Appalachian population)	<i>Sphyrapicus varius appalachiensis</i>	FSC
<u>Invertebrate</u>		
a harvestman	<i>Fumontana deprehendor</i>	FSC
Appalachian elktoe	<i>Alasmidonta raveneliana</i>	E
Diana fritillary (butterfly)	<i>Speyeria diana</i>	FSC
French Broad crayfish	<i>Cambarus reburus</i>	FSC
Southern Tawny Crescent butterfly	<i>Phyciodes batesii maconensis</i>	FSC
Whitewater crayfish ostracod **	<i>Dactylocythere prinsi</i>	FSC
<u>Vascular Plant</u>		
Blue Ridge Ragwort	<i>Packera millefolium</i>	FSC
Butternut	<i>Juglans cinerea</i>	FSC
Cuthbert turtlehead	<i>Chelone cuthbertii</i>	FSC
Darlington's spurge	<i>Euphorbia purpurea</i>	FSC
Fraser fir	<i>Abies fraseri</i>	FSC
Fraser's loosestrife	<i>Lysimachia fraseri</i>	FSC
Gorge filmy fern	<i>Hymenophyllum tayloriae</i>	FSC
Granite dome goldenrod	<i>Solidago simulans</i>	FSC
Gray's saxifrage *	<i>Saxifraga caroliniana</i>	FSC
Lobed Barren-strawberry *	<i>Waldsteinia lobata</i>	FSC
Mountain bitter cress	<i>Cardamine clematitis</i>	FSC
Mountain catchfly	<i>Silene ovata</i>	FSC
Mountain Thaspium *	<i>Thaspium pinnatifidum</i>	FSC
Radford's sedge	<i>Carex radfordii</i>	FSC
Small whorled pogonia	<i>Isotria medeoloides</i>	T
Southern Oconee-bells *	<i>Shortia galacifolia</i> var. <i>galacifolia</i>	FSC
Swamp pink	<i>Helonias bullata</i>	T
Sweet pinesap	<i>Monotropsis odorata</i>	FSC

COMMON NAME	SCIENTIFIC NAME	STATUS
Tall larkspur	<i>Delphinium exaltatum</i>	FSC
Torrey's Mountain-mint *	<i>Pycnanthemum torrei</i>	FSC
<u>Nonvascular plant</u>		
a liverwort *	<i>Plagiochila sullivanii</i> var. <i>sullivanii</i>	FSC
a liverwort *	<i>Sphenolobopsis pearsonii</i>	FSC
a liverwort *	<i>Plagiochila virginica</i> var. <i>caroliniana</i>	FSC
a liverwort *	<i>Plagiochila sharpii</i>	FSC
a liverwort *	<i>Plagiochila sullivanii</i> var. <i>spinigera</i>	FSC
Gorge moss *	<i>Bryocrumia vivicolor</i>	FSC
<u>Lichen</u>		
Rock gnome lichen	<i>Gymnoderma lineare</i>	E

## Johnston County

### Species

#### Vertebrate

American eel	<i>Anguilla rostrata</i>	FSC
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Carolina madtom	<i>Noturus furiosus</i>	FSC
Cerulean warbler	<i>Dendroica cerulea</i>	FSC
Pinewoods shiner **	<i>Lythrurus matutinus</i>	FSC
Red-cockaded woodpecker	<i>Picoides borealis</i>	E
Roanoke bass **	<i>Ambloplites cavifrons</i>	FSC

#### Invertebrate

Atlantic pigtoe	<i>Fusconaia masoni</i>	FSC
Dwarf wedgemussel	<i>Alasmidonta heterodon</i>	E
Green floater	<i>Lasmigona subviridis</i>	FSC
Tar River spiny mussel	<i>Elliptio steinstansana</i>	E
Yellow lampmussel	<i>Lampsilis cariosa</i>	FSC
Yellow lance	<i>Elliptio lanceolata</i>	FSC

#### Vascular Plant

Bog spicebush	<i>Lindera subcoriacea</i>	FSC
Carolina bogmint	<i>Macbridea caroliniana</i>	FSC
Michaux's sumac *	<i>Rhus michauxii</i>	E
Spring-flowering goldenrod	<i>Solidago verna</i>	FSC

## Jones County

### Species

COMMON NAME	SCIENTIFIC NAME	STATUS
<u>Vertebrate</u>		
American alligator *	<i>Alligator mississippiensis</i>	T (S/A)
American eel	<i>Anguilla rostrata</i>	FSC
Bachman's sparrow	<i>Aimophila aestivalis</i>	FSC
Black-throated green warbler	<i>Dendroica virens waynei</i>	FSC
Carolina crawfish frog *	<i>Rana capito capito</i>	FSC
Carolina madtom	<i>Noturus furiosus</i>	FSC
Red-cockaded woodpecker	<i>Picoides borealis</i>	E
Southern hognose snake **	<i>Heterodon simus</i>	FSC
<u>Vascular Plant</u>		
a quillwort	<i>Isoetes microvela</i>	FSC
Carolina bogmint **	<i>Macbridea caroliniana</i>	FSC
Godfrey's sandwort *	<i>Minuartia godfreyi</i>	FSC
Spring-flowering goldenrod	<i>Solidago verna</i>	FSC
Venus' fly-trap *	<i>Dionaea muscipula</i>	FSC
Wagner's spleenwort	<i>Asplenium heteroresiliens</i>	FSC

## Lee County

### Critical Habitat

#### Vertebrate

Cape Fear shiner	<i>Notropis mekistocholas</i>	E
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Approximately 0.5 river mile of Bear Creek, from Chatham County Road 2156 Bridge downstream to the Rocky River, then downstream in the Rocky River (approximately 4.2 river miles) to the Deep River, then downstream in the Deep River (approximately 2.6 river miles) to a point 0.3 river mile below the Moncure, North Carolina, U.S. Geological Survey Gaging Station. Constituent elements include clean streams with gravel, cobble, and boulder substrates with pools, riffles, shallow runs and slackwater areas with large rock outcrops and side channels and pools with water of good quality with relatively low silt loads. September 25, 1987, Federal Register, 2: 36034-36039.

### Species

#### Vertebrate

American eel	<i>Anguilla rostrata</i>	FSC
Cape Fear shiner	<i>Notropis mekistocholas</i>	E
Carolina redbhorse	<i>Moxostoma</i> sp. 2	FSC
Red-cockaded woodpecker *	<i>Picoides borealis</i>	E

#### Invertebrate

Septima's clubtail	<i>Gomphus septima</i>	FSC
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#### Vascular Plant

Bog spicebush	<i>Lindera subcoriacea</i>	FSC
Buttercup phacelia	<i>Phacelia covillei</i>	FSC
Carolina grass-of-parnassus *	<i>Parnassia caroliniana</i>	FSC

COMMON NAME	SCIENTIFIC NAME	STATUS
Georgia lead-plant	<i>Amorpha georgiana</i> var. <i>georgiana</i>	FSC
Harperella *	<i>Ptilimnium nodosum</i>	E
Sandhills bog lily	<i>Lilium pyrophilum</i>	FSC

## Lenoir County

### Species

#### Vertebrate

American eel	<i>Anguilla rostrata</i>	FSC
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Carolina madtom	<i>Noturus furiosus</i>	FSC
Red-cockaded woodpecker *	<i>Picoides borealis</i>	E

#### Vascular Plant

Georgia lead-plant *	<i>Amorpha georgiana</i> var. <i>georgiana</i>	FSC
Sensitive joint-vetch *	<i>Aeschynomene virginica</i>	T
Venus' fly-trap *	<i>Dionaea muscipula</i>	FSC

## Lincoln County

### Species

#### Vascular Plant

Dwarf-flowered heartleaf	<i>Hexastylis naniflora</i>	T
Georgia aster	<i>Symphotrichum georgianum</i>	C
Michaux's sumac *	<i>Rhus michauxii</i>	E
Shoals spiderlily %	<i>Hymenocallis coronaria</i>	FSC

## Macon County

### Critical Habitat

#### Vertebrate

Spotfin chub (=turquoise shiner)	<i>Erimonax monachus</i>	T
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Little Tennessee River, main channel from the backwaters of Fontana Lake upstream to the North Carolina-Georgia state line. September 22, 1977, Federal Register, 42:47840-47845.

#### Invertebrate

Appalachian elktoe	<i>Alasmidonta raveneliana</i>	E
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The main stem of the Little Tennessee River (Tennessee River system), from the Lake Emory Dam at Franklin, Macon County, North Carolina, downstream to the backwaters of Fontana Reservoir in Swain County, North Carolina. The main stem of the Little Tennessee River (Tennessee River system), from the Lake Emory Dam at Franklin, Macon County, North Carolina, downstream to the backwaters of Fontana Reservoir in Swain County, North Carolina. Within these areas, the primary constituent elements include: (i) Permanent, flowing, cool, clean water; (ii) Geomorphically stable stream channels and banks; (iii) Pool, riffle, and run sequences within the channel; (iv) Stable sand, gravel, cobble, boulder, and bedrock substrates with no more than low amounts of fine sediment; (v) Moderate to high stream gradient; (vi) Periodic natural flooding; and (vii) Fish hosts, with adequate living, foraging, and spawning areas for them. September 27, 2002, Federal Register, 67:61016-61040.

COMMON NAME	SCIENTIFIC NAME	STATUS
<i>Species</i>		
<u>Vertebrate</u>		
Appalachian Bewick's wren *	<i>Thryomanes bewickii altus</i>	FSC
Appalachian cottontail	<i>Sylvilagus obscurus</i>	FSC
Bachman's sparrow *	<i>Aimophila aestivalis</i>	FSC
Bog turtle	<i>Clemmys muhlenbergii</i>	T (S/A)
Cerulean warbler	<i>Dendroica cerulea</i>	FSC
Eastern small-footed bat	<i>Myotis leibii</i>	FSC
Green salamander	<i>Aneides aeneus</i>	FSC
Hellbender	<i>Cryptobranchus alleganiensis</i>	FSC
Indiana bat (S)	<i>Myotis sodalis</i>	E
Northern saw-whet owl (Southern Appalachian population)	<i>Aegolius acadicus</i> pop. 1	FSC
Olive darter	<i>Percina squamata</i>	FSC
Olive-sided flycatcher *	<i>Contopus cooperi</i>	FSC
Pygmy salamander	<i>Desmognathus wrighti</i>	FSC
Rafinesque's big-eared bat *	<i>Corynorhinus rafinesquii</i>	FSC
Red crossbill (Southern Appalachian) %	<i>Loxia curvirostra</i>	FSC
Seepage salamander	<i>Desmognathus aeneus</i>	FSC
Sicklefin redhorse	<i>Moxostoma</i> sp. 1	C
Smoky dace	<i>Clinostomus funduloides</i> ssp.	FSC
Southern Appalachian eastern woodrat	<i>Neotoma floridana haematoria</i>	FSC
Southern rock vole *	<i>Microtus chrotorrhinus carolinensis</i>	FSC
Southern water shrew	<i>Sorex palustris punctulatus</i>	FSC
Spotfin chub (=turquoise shiner)	<i>Erimonax monachus</i>	T
wounded darter	<i>Etheostoma vulneratum</i>	FSC
Yellow-bellied sapsucker (Southern Appalachian population)	<i>Sphyrapicus varius appalachiensis</i>	FSC
<u>Invertebrate</u>		
a mayfly	<i>Serratella spiculosa</i>	FSC
Appalachian elktoe	<i>Alasmidonta raveneliana</i>	E
Brook floater	<i>Alasmidonta varicosa</i>	FSC
Diana fritillary (butterfly)	<i>Speyeria diana</i>	FSC
Little Tennessee mussel	<i>Lexingtonia</i> sp. cf. <i>dolabelloides</i>	FSC
Little-wing pearl mussel	<i>Pegias fabula</i>	E
Lost Nantahala Cave spider	<i>Nesticus cooperi</i>	FSC

COMMON NAME	SCIENTIFIC NAME	STATUS
Margarita River skimmer **	<i>Macromia margarita</i>	FSC
Southern Tawny Crescent butterfly	<i>Phyciodes batesii maconensis</i>	FSC
<u>Vascular Plant</u>		
Blue Ridge Ragwort	<i>Packera millefolium</i>	FSC
Butternut	<i>Juglans cinerea</i>	FSC
Cuthbert turtlehead *	<i>Chelone cuthbertii</i>	FSC
Darlington's spurge	<i>Euphorbia purpurea</i>	FSC
Dwarf aster *	<i>Eurybia mirabilis</i>	FSC
Dwarf polypody fern	<i>Grammitis nimbata</i>	FSC
Fraser's loosestrife	<i>Lysimachia fraseri</i>	FSC
Gorge filmy fern	<i>Hymenophyllum tayloriae</i>	FSC
Granite dome goldenrod	<i>Solidago simulans</i>	FSC
Gray's saxifrage	<i>Saxifraga caroliniana</i>	FSC
Mountain catchfly *	<i>Silene ovata</i>	FSC
Piratebush	<i>Buckleya distichophylla</i>	FSC
Small whorled pogonia	<i>Isotria medeoloides</i>	T
Sweet pinesap **	<i>Monotropsis odorata</i>	FSC
Torrey's Mountain-mint *	<i>Pycnanthemum torrei</i>	FSC
Virginia spiraea	<i>Spiraea virginiana</i>	T
<u>Nonvascular plant</u>		
a liverwort *	<i>Plagiochila virginica</i> var. <i>caroliniana</i>	FSC
a liverwort *	<i>Porella wataugensis</i>	FSC
a liverwort	<i>Cephaloziella obtusilobula</i>	FSC
a liverwort *	<i>Plagiochila sullivantii</i> var. <i>sullivantii</i>	FSC
a liverwort *	<i>Plagiochila sharpii</i>	FSC
Anderson's Melon-moss *	<i>Brachymenium andersonii</i>	FSC
<u>Lichen</u>		
Rock gnome lichen	<i>Gymnoderma lineare</i>	E

## Madison County

### Species

#### Vertebrate

Bog turtle %	<i>Clemmys muhlenbergii</i>	T (S/A)
Eastern small-footed bat	<i>Myotis leibii</i>	FSC
Gray bat	<i>Myotis grisescens</i>	E
Hellbender	<i>Cryptobranchus alleganiensis</i>	FSC
Lake sturgeon *	<i>Acipenser fulvescens</i>	FSC

COMMON NAME	SCIENTIFIC NAME	STATUS
Mountain blotched chub **	<i>Erimystax insignis eristigma</i>	FSC
Northern saw-whet owl (Southern Appalachian population)	<i>Aegolius acadicus</i> pop. 1	FSC
Olive darter *	<i>Percina squamata</i>	FSC
Paddlefish *	<i>Polyodon spathula</i>	FSC
Rafinesque's big-eared bat *	<i>Corynorhinus rafinesquii</i>	FSC
Southern Appalachian eastern woodrat	<i>Neotoma floridana haematoresia</i>	FSC
Spotfin chub (=turquoise shiner) *	<i>Erimonax monachus</i>	T
wounded darter *	<i>Etheostoma vulneratum</i>	FSC
<u>Invertebrate</u>		
French Broad crayfish	<i>Cambarus reburus</i>	FSC
Oyster mussel *	<i>Epioblasma capsaeformis</i>	E
Sculptured supercoil	<i>Paravitrea ternaria</i>	FSC
<u>Vascular Plant</u>		
Butternut	<i>Juglans cinerea</i>	FSC
Cuthbert turtlehead	<i>Chelone cuthbertii</i>	FSC
Darlington's spurge	<i>Euphorbia purpurea</i>	FSC
Gray's saxifrage	<i>Saxifraga caroliniana</i>	FSC
Mountain catchfly	<i>Silene ovata</i>	FSC
Mountain Thaspium	<i>Thaspium pinnatifidum</i>	FSC
Piratebush	<i>Buckleya distichophylla</i>	FSC

## Martin County

### Species

#### Vertebrate

American eel	<i>Anguilla rostrata</i>	FSC
Bald eagle *	<i>Haliaeetus leucocephalus</i>	T
Eastern Henslow's sparrow	<i>Ammodramus henslowii susurrans</i>	FSC
Rafinesque's big-eared bat	<i>Corynorhinus rafinesquii</i>	FSC
Southeastern myotis	<i>Myotis austroriparius</i>	FSC

#### Invertebrate

Chowanoke crayfish *	<i>Orconectes virginianensis</i>	FSC
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## McDowell County

### Species

#### Vertebrate

Allegheny woodrat	<i>Neotoma magister</i>	FSC
American eel	<i>Anguilla rostrata</i>	FSC
Bald eagle	<i>Haliaeetus leucocephalus</i>	T

COMMON NAME	SCIENTIFIC NAME	STATUS
Bog turtle	<i>Clemmys muhlenbergii</i>	T (S/A)
Carolina northern flying squirrel	<i>Glaucomys sabrinus coloratus</i>	E
Cerulean warbler	<i>Dendroica cerulea</i>	FSC
Olive-sided flycatcher *	<i>Contopus cooperi</i>	FSC
Pygmy salamander	<i>Desmognathus wrighti</i>	FSC
Red crossbill (Southern Appalachian)	<i>Loxia curvirostra</i>	FSC
Southern Appalachian eastern woodrat	<i>Neotoma floridana haematoresia</i>	FSC
Southern rock vole	<i>Microtus chrotorrhinus carolinensis</i>	FSC
<u>Invertebrate</u>		
Bennett's Mill Cave water slater	<i>Caecidotea carolinensis</i>	FSC
Diana fritillary (butterfly)	<i>Speyeria diana</i>	FSC
<u>Vascular Plant</u>		
Blue Ridge Ragwort	<i>Packera millefolium</i>	FSC
Butternut	<i>Juglans cinerea</i>	FSC
Cuthbert turtlehead	<i>Chelone cuthbertii</i>	FSC
Gray's lily	<i>Lilium grayi</i>	FSC
Large-leaved Grass-of-Parnassus	<i>Parnassia grandifolia</i>	FSC
Mountain golden heather	<i>Hudsonia montana</i>	T
Short-styled Oconee-bells	<i>Shortia galacifolia</i> var. <i>brevistyla</i>	FSC
Small whorled pogonia	<i>Isotria medeoloides</i>	T
Sweet pinesap	<i>Monotropsis odorata</i>	FSC
Tall larkspur	<i>Delphinium exaltatum</i>	FSC
<u>Nonvascular plant</u>		
a liverwort	<i>Plagiochila sullivantii</i> var. <i>sullivantii</i>	FSC
a liverwort	<i>Porella wataugensis</i>	FSC

## Mecklenburg County

### Species

#### Vertebrate

American eel	<i>Anguilla rostrata</i>	FSC
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Carolina darter	<i>Etheostoma collis collis</i>	FSC

#### Invertebrate

Carolina creekshell	<i>Villosa vaughaniana</i>	FSC
Carolina heelsplitter *	<i>Lasmigona decorata</i>	E

#### Vascular Plant

Dwarf aster	<i>Eurybia mirabilis</i>	FSC
Georgia aster	<i>Symphotrichum georgianum</i>	C

COMMON NAME	SCIENTIFIC NAME	STATUS
Michaux's sumac	<i>Rhus michauxii</i>	E
Prairie birdsfoot-trefoil	<i>Lotus unifoliolatus</i> var. <i>helleri</i>	FSC
Schweinitz's sunflower	<i>Helianthus schweinitzii</i>	E
Shoals spiderlily %	<i>Hymenocallis coronaria</i>	FSC
Smooth coneflower	<i>Echinacea laevigata</i>	E
Tall larkspur *	<i>Delphinium exaltatum</i>	FSC

## Mitchell County

### Critical Habitat

#### Invertebrate

Appalachian elktoe	<i>Alasmidonta raveneliana</i>	E
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The main stem of the North Toe River, Yancey and Mitchell Counties, North Carolina, from the confluence of Big Crabtree Creek, downstream to the confluence of the South Toe River; the main stem of the South Toe River, Yancey County, North Carolina, from the N.C. State Route 1152 Bridge, downstream to its confluence with the North Toe River; the main stem of the Toe River, Yancey and Mitchell Counties, North Carolina, from the confluence of the North Toe River and the South Toe River, downstream to the confluence of the Cane River; the main stem of the Cane River, Yancey County, North Carolina, from the N.C. State Route 1381 Bridge, downstream to its confluence with the Toe River; and the main stem of the Nolichucky River, from the confluence of the Toe River and the Cane River in Yancey and Mitchell Counties, North Carolina, downstream to the U.S. Highway 23/19W Bridge southwest of Erwin, Unicoi County, Tennessee. Within these areas, the primary constituent elements include: (i) Permanent, flowing, cool, clean water; (ii) Geomorphically stable stream channels and banks; (iii) Pool, riffle, and run sequences within the channel; (iv) Stable sand, gravel, cobble, boulder, and bedrock substrates with no more than low amounts of fine sediment; (v) Moderate to high stream gradient; (vi) Periodic natural flooding; and (vii) Fish hosts, with adequate living, foraging, and spawning areas for them. September 27, 2002, Federal Register, 67:61016-61040.

Spruce-fir moss spider	<i>Microhexura montivaga</i>	E
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All portions of the Pisgah National Forest in North Carolina and the Cherokee National Forest in Tennessee, bounded to the north and to the south of the North Carolina/Tennessee state line by the 1,646-m (5,400-ft) contour, from the intersection of the 1,646-m (5,400-ft) contour with the State line north of Elk Hollow Branch, Avery County, North Carolina, and southwest of Yellow Mountain, Carter County, Tennessee, west to the 1,646-m (5,400-ft) contour at Eagle Cliff, Mitchell County, North Carolina. Within these areas, the primary constituent elements include (1) Fraser fir or fir-dominated spruce-fir forests at and above 1,646-m (5,400-m) in elevation, and (2) moderately thick and humid, but not wet, moss (species in the genus *Dicranodontium*, and possibly *Polytrichum*) and/or liverwort mats on rock surfaces that are adequately sheltered from the sun and rain (by overhang and aspect) and include a thin layer of humid soil and/or humus between the moss and rock surface. July 6, 2001, Federal Register, 66:35547-35566.

### Species

#### Vertebrate

Allegheny woodrat **	<i>Neotoma magister</i>	FSC
Appalachian cottontail	<i>Sylvilagus obscurus</i>	FSC
Bog turtle	<i>Clemmys muhlenbergii</i>	T (S/A)
Carolina northern flying squirrel	<i>Glaucomys sabrinus coloratus</i>	E

COMMON NAME	SCIENTIFIC NAME	STATUS
Hellbender	<i>Cryptobranchus alleganiensis</i>	FSC
Indiana bat *	<i>Myotis sodalis</i>	E
Mountain blotched chub **	<i>Erimystax insignis eristigma</i>	FSC
Northern saw-whet owl (Southern Appalachian population)	<i>Aegolius acadicus</i> pop. 1	FSC
Olive darter	<i>Percina squamata</i>	FSC
Olive-sided flycatcher *	<i>Contopus cooperi</i>	FSC
Pygmy salamander	<i>Desmognathus wrighti</i>	FSC
Red crossbill (Southern Appalachian)	<i>Loxia curvirostra</i>	FSC
Sharphead darter	<i>Etheostoma acuticeps</i>	FSC
Southern Appalachian black-capped chickadee	<i>Poecile atricapillus praticus</i>	FSC
Yellow-bellied sapsucker (Southern Appalachian population) *	<i>Sphyrapicus varius appalachiensis</i>	FSC
<u>Invertebrate</u>		
Appalachian elktoe	<i>Alasmidonta raveneliana</i>	E
Diana fritillary (butterfly) **	<i>Speyeria diana</i>	FSC
Roan supercoil *	<i>Paravitrea varidens</i>	FSC
Spruce-fir moss spider	<i>Microhexura montivaga</i>	E
<u>Vascular Plant</u>		
Bent avens	<i>Geum geniculatum</i>	FSC
Blue Ridge goldenrod	<i>Solidago spithamaea</i>	T
Butternut *	<i>Juglans cinerea</i>	FSC
Darlington's spurge	<i>Euphorbia purpurea</i>	FSC
Fraser fir	<i>Abies fraseri</i>	FSC
Gray's lily	<i>Lilium grayi</i>	FSC
Gray's saxifrage	<i>Saxifraga caroliniana</i>	FSC
Heller's blazing star *	<i>Liatris helleri</i>	T
Mountain bitter cress	<i>Cardamine clematitis</i>	FSC
Piratebush	<i>Buckleya distichophylla</i>	FSC
Roan False Goat's-beard *	<i>Astilbe crenatiloba</i>	FSC
Roan mountain bluet	<i>Hedyotis purpurea</i> var. <i>montana</i>	E
Spreading avens	<i>Geum radiatum</i>	E
Tall larkspur *	<i>Delphinium exaltatum</i>	FSC
Virginia spiraea	<i>Spiraea virginiana</i>	T
<u>Nonvascular plant</u>		
a liverwort *	<i>Plagiochila sullivantii</i> var. <i>sullivantii</i>	FSC

COMMON NAME	SCIENTIFIC NAME	STATUS
a liverwort *	<i>Sphenolobopsis pearsonii</i>	FSC
<u>Lichen</u>		
Rock gnome lichen	<i>Gymnoderma lineare</i>	E

## Montgomery County

### Species

#### Vertebrate

American eel	<i>Anguilla rostrata</i>	FSC
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Carolina darter	<i>Etheostoma collis collis</i>	FSC
Carolina redbhorse	<i>Moxostoma</i> sp. 2	FSC
Eastern puma (=cougar) *	<i>Puma concolor cougar</i>	E
Northern pine snake	<i>Pituophis melanoleucus melanoleucus</i>	FSC
Pinewoods darter	<i>Etheostoma mariae</i>	FSC
Red-cockaded woodpecker	<i>Picoides borealis</i>	E
Sandhills chub *	<i>Semotilus lumbee</i>	FSC

#### Invertebrate

Atlantic pigtoe	<i>Fusconaia masoni</i>	FSC
Brook floater	<i>Alasmidonta varicosa</i>	FSC
Carolina creekshell	<i>Villosa vaughaniana</i>	FSC
Savannah lilliput	<i>Toxolasma pullus</i>	FSC
Yellow lampmussel	<i>Lampsilis cariosa</i>	FSC

#### Vascular Plant

Bog oatgrass	<i>Danthonia epilis</i>	FSC
Bog spicebush	<i>Lindera subcoriacea</i>	FSC
Dwarf aster	<i>Eurybia mirabilis</i>	FSC
Georgia aster	<i>Symphotrichum georgianum</i>	C
Ravine sedge	<i>Carex impressinervia</i>	FSC
Schweinitz's sunflower	<i>Helianthus schweinitzii</i>	E
Smooth coneflower *	<i>Echinacea laevigata</i>	E
Yadkin River goldenrod	<i>Solidago plumosa</i>	C

## Moore County

### Critical Habitat

#### Vertebrate

Cape Fear shiner	<i>Notropis mekistocholas</i>	E
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Approximately 1.5 miles of Fork Creek, from a point 0.1 river mile upstream of Randolph County Road 2873 Bridge downstream to the Deep River then downstream approximately 4.1 river miles of the Deep River in Randolph and Moore Counties, North Carolina, to a point 2.5 river miles below Moore County Road 1456 Bridge. Constituent elements include clean

## COMMON NAME

## SCIENTIFIC NAME

## STATUS

streams with gravel, cobble, and boulder substrates with pools, riffles, shallow runs and slackwater areas with large rock outcrops and side channels and pools with water of good quality with relatively low silt loads. September 25, 1987, Federal Register, 2: 36034-36039.

*Species*Vertebrate

American eel	<i>Anguilla rostrata</i>	FSC
Bachman's sparrow	<i>Aimophila aestivalis</i>	FSC
Cape Fear shiner	<i>Notropis mekistocholas</i>	E
Carolina darter	<i>Etheostoma collis lepidinion</i>	FSC
Carolina darter	<i>Etheostoma collis collis</i>	FSC
Carolina redbhorse	<i>Moxostoma</i> sp. 2	FSC
Northern pine snake	<i>Pituophis melanoleucus melanoleucus</i>	FSC
Pinewoods darter	<i>Etheostoma mariae</i>	FSC
Red-cockaded woodpecker	<i>Picoides borealis</i>	E
Roanoke bass	<i>Ambloplites cavifrons</i>	FSC
Sandhills chub	<i>Semotilus lumbee</i>	FSC
Southeastern myotis	<i>Myotis austroriparius</i>	FSC
Southern hognose snake	<i>Heterodon simus</i>	FSC

Invertebrate

Atlantic pigtoe	<i>Fusconaia masoni</i>	FSC
Brook floater	<i>Alasmidonta varicosa</i>	FSC
Carolina creekshell	<i>Villosa vaughaniana</i>	FSC
Eastern beard grass skipper *	<i>Atrytone arogos arogos</i>	FSC
Septima's clubtail	<i>Gomphus septima</i>	FSC
Yellow lampmussel	<i>Lampsilis cariosa</i>	FSC

Vascular Plant

American chaffseed	<i>Schwalbea americana</i>	E
Bog oatgrass	<i>Danthonia epilis</i>	FSC
Bog spicebush	<i>Lindera subcoriacea</i>	FSC
Buttercup phacelia	<i>Phacelia covillei</i>	FSC
Georgia lead-plant	<i>Amorpha georgiana</i> var. <i>georgiana</i>	FSC
Hairy-peduncled beakrush	<i>Rhynchospora crinipes</i>	FSC
Michaux's sumac	<i>Rhus michauxii</i>	E
Pickering's dawnflower	<i>Stylisma pickeringii</i> var. <i>pickeringii</i>	FSC
Prairie birdsfoot-trefoil	<i>Lotus unifoliolatus</i> var. <i>helleri</i>	FSC
Roughleaf yellow-eyed grass	<i>Xyris scabrifolia</i>	FSC

COMMON NAME	SCIENTIFIC NAME	STATUS
Sandhills bog lily	<i>Lilium pyrophilum</i>	FSC
Sandhills milk-vetch	<i>Astragalus michauxii</i>	FSC
Spring-flowering goldenrod	<i>Solidago verna</i>	FSC
Sun-facing coneflower *	<i>Rudbeckia heliopsisidis</i>	FSC
Venus' fly-trap *	<i>Dionaea muscipula</i>	FSC
Well's sandhill pixie-moss	<i>Pyxidantha barbulate</i> var. <i>brevifolia</i>	FSC

## Nash County

### Species

#### Vertebrate

American eel	<i>Anguilla rostrata</i>	FSC
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Carolina madtom	<i>Noturus furiosus</i>	FSC
Pinewoods shiner **	<i>Lythrurus matutinus</i>	FSC
Red-cockaded woodpecker *	<i>Picoides borealis</i>	E
Roanoke bass	<i>Ambloplites cavifrons</i>	FSC

#### Invertebrate

Atlantic pigtoe	<i>Fusconaia masoni</i>	FSC
Diana fritillary (butterfly) **	<i>Speyeria diana</i>	FSC
Dwarf wedgemussel	<i>Alasmidonta heterodon</i>	E
Green floater	<i>Lasmigona subviridis</i>	FSC
Tar River spinymussel	<i>Elliptio steinstansana</i>	E
Yellow lampmussel	<i>Lampsilis cariosa</i>	FSC
Yellow lance	<i>Elliptio lanceolata</i>	FSC

#### Vascular Plant

Sandhills bog lily *	<i>Lilium pyrophilum</i>	FSC
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## New Hanover County

### Critical Habitat

#### Vertebrate

Piping plover	<i>Charadrius melodus</i>	T
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See the Federal Register for a description of the primary constituent elements essential for the conservation of wintering piping plovers within the designated units. This document also contains a map and a description of each designated unit. July 10, 2001, Federal Register, 66:36038- 36136.

### Species

#### Vertebrate

American alligator	<i>Alligator mississippiensis</i>	T (S/A)
American eel	<i>Anguilla rostrata</i>	FSC
Carolina crawfish frog *	<i>Rana capito capito</i>	FSC

COMMON NAME	SCIENTIFIC NAME	STATUS
Eastern painted bunting	<i>Passerina ciris ciris</i>	FSC
Green sea turtle	<i>Chelonia mydas (incl. agassizi)</i>	T
Loggerhead sea turtle	<i>Caretta caretta</i>	T
Mimic glass lizard *	<i>Ophisaurus mimicus</i>	FSC
Northern pine snake *	<i>Pituophis melanoleucus melanoleucus</i>	FSC
Piping plover	<i>Charadrius melodus</i>	T
Rafinesque's big-eared bat	<i>Corynorhinus rafinesquii</i>	FSC
Red-cockaded woodpecker	<i>Picoides borealis</i>	E
Shortnose sturgeon	<i>Acipenser brevirostrum</i>	E
Southeastern myotis	<i>Myotis austroriparius</i>	FSC
Southern hognose snake	<i>Heterodon simus</i>	FSC
West Indian manatee	<i>Trichechus manatus</i>	E
<u>Invertebrate</u>		
Buchholz's dart moth	<i>Agrotis buchholzi</i>	FSC
Cape Fear threetooth	<i>Triodopsis soelneri</i>	FSC
Eastern beard grass skipper **	<i>Atrytone arogos arogos</i>	FSC
Greenfield rams-horn *	<i>Helisoma eucosmium</i>	FSC
Loammi skipper **	<i>Atrytonopsis loammi</i>	FSC
Magnificent rams-horn *	<i>Planorbella magnifica</i>	FSC
Rare skipper	<i>Problema bulenta</i>	FSC
<u>Vascular Plant</u>		
Bog St. John's-wort *	<i>Hypericum adpressum</i>	FSC
Carolina bishopweed *	<i>Ptilimnium ahlesii</i>	FSC
Carolina lead-plant *	<i>Amorpha georgiana var. confusa</i>	FSC
Coastal beaksedge	<i>Rhynchospora pleiantha</i>	FSC
Coastal goldenrod *	<i>Solidago villosicarpa</i>	FSC
Cooley's meadowrue **	<i>Thalictrum cooleyi</i>	E
Dune blue curls	<i>Trichostema sp. 1</i>	FSC
False coco *	<i>Pteroglossaspis ecristata</i>	FSC
Grassleaf arrowhead	<i>Sagittaria weatherbiana</i>	FSC
Pickering's dawnflower	<i>Stylisma pickeringii var. pickeringii</i>	FSC
Pondspice	<i>Litsea aestivalis</i>	FSC
Raven's boxseed *	<i>Ludwigia ravenii</i>	FSC
Rough-leaved loosestrife	<i>Lysimachia asperulaefolia</i>	E
Sandhills milk-vetch *	<i>Astragalus michauxii</i>	FSC
Seabeach amaranth	<i>Amaranthus pumilus</i>	T

COMMON NAME	SCIENTIFIC NAME	STATUS
Spring-flowering goldenrod *	<i>Solidago verna</i>	FSC
Tough bumelia *	<i>Sideroxylon tenax</i>	FSC
Venus' fly-trap	<i>Dionaea muscipula</i>	FSC

## Northampton County

### Species

#### Vertebrate

American eel	<i>Anguilla rostrata</i>	FSC
Bald eagle *	<i>Haliaeetus leucocephalus</i>	T
Cerulean warbler	<i>Dendroica cerulea</i>	FSC
Rafinesque's big-eared bat	<i>Corynorhinus rafinesquii</i>	FSC
Red-cockaded woodpecker *	<i>Picoides borealis</i>	E

#### Invertebrate

Atlantic pigtoe *	<i>Fusconaia masoni</i>	FSC
Chowanoke crayfish	<i>Orconectes virginianus</i>	FSC
Green floater	<i>Lasmigona subviridis</i>	FSC

#### Vascular Plant

Bog St. John's-wort *	<i>Hypericum adpressum</i>	FSC
Reclining bulrush	<i>Scirpus flaccidifolius</i>	FSC
Sandhills bog lily *	<i>Lilium pyrophilum</i>	FSC

## Onslow County

### Critical Habitat

#### Vertebrate

Piping plover	<i>Charadrius melodus</i>	T
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See the Federal Register for a description of the primary constituent elements essential for the conservation of wintering piping plovers within the designated units. This document also contains a map and a description of each designated unit. July 10, 2001, Federal Register, 66:36038- 36136.

### Species

#### Vertebrate

American alligator	<i>Alligator mississippiensis</i>	T (S/A)
American eel	<i>Anguilla rostrata</i>	FSC
Bachman's sparrow	<i>Aimophila aestivalis</i>	FSC
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Black rail	<i>Laterallus jamaicensis</i>	FSC
Carolina crawfish frog	<i>Rana capito capito</i>	FSC
Eastern Henslow's sparrow	<i>Ammodramus henslowii susurrans</i>	FSC
Eastern painted bunting	<i>Passerina ciris ciris</i>	FSC
Eastern puma (=cougar) *	<i>Puma concolor cougar</i>	E

COMMON NAME	SCIENTIFIC NAME	STATUS
Green sea turtle	<i>Chelonia mydas (incl. agassizi)</i>	T
Leatherback sea turtle	<i>Dermochelys coriacea</i>	E
Loggerhead sea turtle	<i>Caretta caretta</i>	T
Mimic glass lizard	<i>Ophisaurus mimicus</i>	FSC
Piping plover	<i>Charadrius melodus</i>	T
Red-cockaded woodpecker	<i>Picoides borealis</i>	E
Shortnose sturgeon *	<i>Acipenser brevirostrum</i>	E
Southern hognose snake	<i>Heterodon simus</i>	FSC
West Indian manatee	<i>Trichechus manatus</i>	E
<u>Invertebrate</u>		
a skipper	<i>Atrytonopsis</i> sp. 1	FSC
Buchholz's dart moth **	<i>Agrotis buchholzi</i>	FSC
<u>Vascular Plant</u>		
a quillwort	<i>Isoetes microvela</i>	FSC
Awned meadowbeauty	<i>Rhexia aristosa</i>	FSC
Boykin's lobelia	<i>Lobelia boykinii</i>	FSC
Carolina grass-of-parnassus	<i>Parnassia caroliniana</i>	FSC
Carolina trillium	<i>Trillium pusillum</i> var. <i>pusillum</i>	FSC
Coastal beaksedge	<i>Rhynchospora pleiantha</i>	FSC
Coastal goldenrod	<i>Solidago villosicarpa</i>	FSC
Cooley's meadowrue	<i>Thalictrum cooleyi</i>	E
Golden sedge	<i>Carex lutea</i>	E
Grassleaf arrowhead	<i>Sagittaria weatherbiana</i>	FSC
Hirst's panic grass	<i>Dichanthelium hirstii</i>	C
Loose watermilfoil	<i>Myriophyllum laxum</i>	FSC
Many-flowered grass-pink	<i>Calopogon multiflorus</i>	FSC
Pineland plantain	<i>Plantago sparsiflora</i>	FSC
Pondberry	<i>Lindera melissifolia</i>	E
Pondspice	<i>Litsea aestivalis</i>	FSC
Rough-leaved loosestrife	<i>Lysimachia asperulaefolia</i>	E
Savanna onion	<i>Allium</i> sp. 1	FSC
Seabeach amaranth	<i>Amaranthus pumilus</i>	T
Smooth-seeded hairy nutrush	<i>Scleria</i> sp. 1	FSC
Spring-flowering goldenrod	<i>Solidago verna</i>	FSC
Swamp forest beakrush	<i>Rhynchospora decurrens</i>	FSC
Thorne's beakrush	<i>Rhynchospora thornei</i>	FSC

COMMON NAME	SCIENTIFIC NAME	STATUS
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Venus' fly-trap	<i>Dionaea muscipula</i>	FSC
Wagner's spleenwort *	<i>Asplenium heteroresiliens</i>	FSC

## Orange County

### Species

#### Vertebrate

American eel	<i>Anguilla rostrata</i>	FSC
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Carolina darter *	<i>Etheostoma collis lepidinion</i>	FSC
Red-cockaded woodpecker *	<i>Picoides borealis</i>	E
Roanoke bass	<i>Ambloplites cavifrons</i>	FSC

#### Invertebrate

Atlantic pigtoe	<i>Fusconaia masoni</i>	FSC
Brook floater	<i>Alasmidonta varicosa</i>	FSC
Dwarf wedgemussel	<i>Alasmidonta heterodon</i>	E
Green floater	<i>Lasmigona subviridis</i>	FSC
Savannah lilliput	<i>Toxolasma pullus</i>	FSC
Yellow lampmussel	<i>Lampsilis cariosa</i>	FSC

#### Vascular Plant

Butternut *	<i>Juglans cinerea</i>	FSC
Creamy tick-trefoil *	<i>Desmodium ochroleucum</i>	FSC
Michaux's sumac *	<i>Rhus michauxii</i>	E
Smooth coneflower *	<i>Echinacea laevigata</i>	E
Sweet pinesap	<i>Monotropsis odorata</i>	FSC
Torrey's Mountain-mint	<i>Pycnanthemum torrei</i>	FSC

## Pamlico County

### Species

#### Vertebrate

American alligator *	<i>Alligator mississippiensis</i>	T (S/A)
American eel	<i>Anguilla rostrata</i>	FSC
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Black rail	<i>Laterallus jamaicensis</i>	FSC
Black-throated green warbler	<i>Dendroica virens waynei</i>	FSC
Kemp's (=Atlantic) ridley sea turtle	<i>Lepidochelys kempii</i>	E
Northern diamondback terrapin	<i>Malaclemys terrapin terrapin</i>	FSC
Red-cockaded woodpecker *	<i>Picoides borealis</i>	E

COMMON NAME	SCIENTIFIC NAME	STATUS
Shortnose sturgeon %	<i>Acipenser brevirostrum</i>	E
West Indian manatee *	<i>Trichechus manatus</i>	E
<u>Vascular Plant</u>		
Raven's boxseed *	<i>Ludwigia ravenii</i>	FSC
Rough-leaved loosestrife	<i>Lysimachia asperulaefolia</i>	E
Spring-flowering goldenrod	<i>Solidago verna</i>	FSC
Venus' fly-trap *	<i>Dionaea muscipula</i>	FSC

## Pasquotank County

### Species

#### Vertebrate

American eel	<i>Anguilla rostrata</i>	FSC
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Shortnose sturgeon *	<i>Acipenser brevirostrum</i>	E

#### Vascular Plant

Grassleaf arrowhead	<i>Sagittaria weatherbiana</i>	FSC
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## Pender County

### Critical Habitat

#### Vertebrate

Piping plover	<i>Charadrius melodus</i>	T
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See the Federal Register for a description of the primary constituent elements essential for the conservation of wintering piping plovers within the designated units. This document also contains a map and a description of each designated unit. July 10, 2001, Federal Register, 66:36038- 36136.

### Species

#### Vertebrate

American alligator	<i>Alligator mississippiensis</i>	T (S/A)
American eel	<i>Anguilla rostrata</i>	FSC
Bachman's sparrow	<i>Aimophila aestivalis</i>	FSC
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Carolina crawfish frog	<i>Rana capito capito</i>	FSC
Eastern Henslow's sparrow	<i>Ammodramus henslowii susurrans</i>	FSC
Eastern painted bunting	<i>Passerina ciris ciris</i>	FSC
Green sea turtle	<i>Chelonia mydas (incl. agassizi)</i>	T
Loggerhead sea turtle	<i>Caretta caretta</i>	T
Piping plover	<i>Charadrius melodus</i>	T
Rafinesque's big-eared bat	<i>Corynorhinus rafinesquii</i>	FSC
Red-cockaded woodpecker	<i>Picoides borealis</i>	E
Shortnose sturgeon	<i>Acipenser brevirostrum</i>	E

COMMON NAME	SCIENTIFIC NAME	STATUS
Southeastern myotis	<i>Myotis austroriparius</i>	FSC
Southern hognose snake	<i>Heterodon simus</i>	FSC
West Indian manatee	<i>Trichechus manatus</i>	E
<u>Invertebrate</u>		
Atlantic pigtoe	<i>Fusconaia masoni</i>	FSC
Buchholz's dart moth	<i>Agrotis buchholzi</i>	FSC
Carter's noctuid moth	<i>Spartiniphaga carterae</i>	FSC
Venus flytrap cutworm	<i>Hemipachnobia subporphyrea</i>	FSC
Yellow lampmussel	<i>Lampsilis cariosa</i>	FSC
<u>Vascular Plant</u>		
American chaffseed *	<i>Schwalbea americana</i>	E
Carolina bishopweed	<i>Ptilimnium ahlesii</i>	FSC
Carolina bogmint	<i>Macbridea caroliniana</i>	FSC
Carolina grass-of-parnassus	<i>Parnassia caroliniana</i>	FSC
Carolina trillium	<i>Trillium pusillum</i> var. <i>pusillum</i>	FSC
Coastal goldenrod	<i>Solidago villosicarpa</i>	FSC
Cooley's meadowrue	<i>Thalictrum cooleyi</i>	E
Georgia lead-plant	<i>Amorpha georgiana</i> var. <i>georgiana</i>	FSC
Golden sedge	<i>Carex lutea</i>	E
Grassleaf arrowhead	<i>Sagittaria weatherbiana</i>	FSC
Pickering's dawnflower	<i>Stylisma pickeringii</i> var. <i>pickeringii</i>	FSC
Pineland plantain	<i>Plantago sparsiflora</i>	FSC
Rough-leaved loosestrife	<i>Lysimachia asperulaefolia</i>	E
Sandhills milk-vetch	<i>Astragalus michauxii</i>	FSC
Savanna onion	<i>Allium</i> sp. 1	FSC
Seabeach amaranth	<i>Amaranthus pumilus</i>	T
Smooth-seeded hairy nutrush	<i>Scleria</i> sp. 1	FSC
Spring-flowering goldenrod	<i>Solidago verna</i>	FSC
Thorne's beakrush	<i>Rhynchospora thornei</i>	FSC
Venus' fly-trap	<i>Dionaea muscipula</i>	FSC

## Perquimans County

### Species

#### Vertebrate

American eel	<i>Anguilla rostrata</i>	FSC
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Rafinesque's big-eared bat	<i>Corynorhinus rafinesquii</i>	FSC

Vascular Plant

Raven's boxseed *	<i>Ludwigia ravenii</i>	FSC
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**Person County**

*Species*

Vertebrate

Carolina darter %	<i>Etheostoma collis lepidinion</i>	FSC
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Pinewoods shiner **	<i>Lythrurus matutinus</i>	FSC
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Roanoke bass	<i>Ambloplites cavifrons</i>	FSC
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Invertebrate

Atlantic pigtoe	<i>Fusconaia masoni</i>	FSC
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Dwarf wedgemussel **	<i>Alasmidonta heterodon</i>	E
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Green floater	<i>Lasmigona subviridis</i>	FSC
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Yellow lampmussel	<i>Lampsilis cariosa</i>	FSC
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Vascular Plant

Prairie birdsfoot-trefoil	<i>Lotus unifoliolatus var. helleri</i>	FSC
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Sweet pinesap *	<i>Monotropsis odorata</i>	FSC
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Virginia quillwort	<i>Isoetes virginica</i>	FSC
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**Pitt County**

*Species*

Vertebrate

American eel	<i>Anguilla rostrata</i>	FSC
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Bald eagle	<i>Haliaeetus leucocephalus</i>	T
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Carolina madtom	<i>Noturus furiosus</i>	FSC
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Eastern Henslow's sparrow	<i>Ammodramus henslowii susurrans</i>	FSC
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Pinewoods shiner **	<i>Lythrurus matutinus</i>	FSC
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Red-cockaded woodpecker *	<i>Picoides borealis</i>	E
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Roanoke bass *	<i>Ambloplites cavifrons</i>	FSC
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Southern hognose snake **	<i>Heterodon simus</i>	FSC
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West Indian manatee	<i>Trichechus manatus</i>	E
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Invertebrate

Atlantic pigtoe *	<i>Fusconaia masoni</i>	FSC
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Green floater	<i>Lasmigona subviridis</i>	FSC
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Tar River spinymussel *	<i>Elliptio steinstansana</i>	E
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Yellow lampmussel *	<i>Lampsilis cariosa</i>	FSC
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Vascular Plant

Grassleaf arrowhead	<i>Sagittaria weatherbiana</i>	FSC
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## Polk County

### Species

#### Vertebrate

Cerulean warbler	<i>Dendroica cerulea</i>	FSC
Green salamander	<i>Aneides aeneus</i>	FSC
Southern Appalachian eastern woodrat	<i>Neotoma floridana haematorea</i>	FSC

#### Invertebrate

Diana fritillary (butterfly)	<i>Speyeria diana</i>	FSC
Grizzled skipper *	<i>Pyrgus wyandot</i>	FSC

#### Vascular Plant

Big-leaf scurfpea *	<i>Orbexilum macrophyllum</i>	FSC
Blue Ridge Ragwort	<i>Packera millefolium</i>	FSC
Butternut	<i>Juglans cinerea</i>	FSC
Dwarf-flowered heartleaf	<i>Hexastylis naniflora</i>	T
French Broad heartleaf	<i>Hexastylis rhombiformis</i>	FSC
Large-flowered barbara's-buttons *	<i>Marshallia grandiflora</i>	FSC
Small whorled pogonia %	<i>Isotria medeoloides</i>	T
Sweet pinesap *	<i>Monotropsis odorata</i>	FSC
White irisette	<i>Sisyrinchium dichotomum</i>	E

#### Lichen

a lichen *	<i>Canoparmelia amabilis</i>	FSC
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## Randolph County

### Critical Habitat

#### Vertebrate

Cape Fear shiner	<i>Notropis mekistocholas</i>	E
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Approximately 1.5 miles of Fork Creek, from a point 0.1 river mile upstream of Randolph County Road 2873 Bridge downstream to the Deep River then downstream approximately 4.1 river miles of the Deep River in Randolph and Moore Counties, North Carolina, to a point 2.5 river miles below Moore County Road 1456 Bridge. Constituent elements include clean streams with gravel, cobble, and boulder substrates with pools, riffles, shallow runs and slackwater areas with large rock outcrops and side channels and pools with water of good quality with relatively low silt loads. September 25, 1987, Federal Register, 2: 36034-36039.

### Species

#### Vertebrate

American eel	<i>Anguilla rostrata</i>	FSC
Cape Fear shiner	<i>Notropis mekistocholas</i>	E
Carolina darter	<i>Etheostoma collis collis</i>	FSC
Carolina redbhorse	<i>Moxostoma</i> sp. 2	FSC

Invertebrate

Atlantic pigtoe	<i>Fusconaia masoni</i>	FSC
Brook floater **	<i>Alasmidonta varicosa</i>	FSC
Carolina creekshell	<i>Villosa vaughaniana</i>	FSC
Savannah lilliput	<i>Toxolasma pullus</i>	FSC
Yellow lampmussel	<i>Lampsilis cariosa</i>	FSC

Vascular Plant

Georgia aster	<i>Symphytotrichum georgianum</i>	C
Prairie birdsfoot-trefoil	<i>Lotus unifoliolatus</i> var. <i>helleri</i>	FSC
Schweinitz's sunflower	<i>Helianthus schweinitzii</i>	E

## Richmond County

*Species*

Vertebrate

American eel	<i>Anguilla rostrata</i>	FSC
Bachman's sparrow	<i>Aimophila aestivalis</i>	FSC
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Carolina darter	<i>Etheostoma collis collis</i>	FSC
Carolina redhorse	<i>Moxostoma</i> sp. 2	FSC
Northern pine snake	<i>Pituophis melanoleucus melanoleucus</i>	FSC
Pinewoods darter	<i>Etheostoma mariae</i>	FSC
Rafinesque's big-eared bat	<i>Corynorhinus rafinesquii</i>	FSC
Red-cockaded woodpecker	<i>Picoides borealis</i>	E
Robust redhorse	<i>Moxostoma robustum</i>	FSC
Sandhills chub	<i>Semotilus lumbee</i>	FSC
Shortnose sturgeon	<i>Acipenser brevirostrum</i>	E
Southeastern myotis	<i>Myotis austroriparius</i>	FSC
Southern hognose snake **	<i>Heterodon simus</i>	FSC

Invertebrate

Carolina creekshell	<i>Villosa vaughaniana</i>	FSC
Carolina heelsplitter *	<i>Lasmigona decorata</i>	E
Eastern beard grass skipper **	<i>Atrytone arogos arogos</i>	FSC
Yellow lampmussel	<i>Lampsilis cariosa</i>	FSC

Vascular Plant

Bog oatgrass	<i>Danthonia epilis</i>	FSC
Bog spicebush	<i>Lindera subcoriacea</i>	FSC
Dwarf aster	<i>Eurybia mirabilis</i>	FSC

COMMON NAME	SCIENTIFIC NAME	STATUS
Georgia lead-plant *	<i>Amorpha georgiana</i> var. <i>georgiana</i>	FSC
Michaux's sumac	<i>Rhus michauxii</i>	E
Pickering's dawnflower	<i>Stylisma pickeringii</i> var. <i>pickeringii</i>	FSC
Roughleaf yellow-eyed grass	<i>Xyris scabrifolia</i>	FSC
Rough-leaved loosestrife	<i>Lysimachia asperulaefolia</i>	E
Sandhills bog lily	<i>Lilium pyrophilum</i>	FSC
Sandhills milk-vetch	<i>Astragalus michauxii</i>	FSC
Spring-flowering goldenrod	<i>Solidago verna</i>	FSC

## Robeson County

### *Species*

#### Vertebrate

American alligator	<i>Alligator mississippiensis</i>	T (S/A)
American eel	<i>Anguilla rostrata</i>	FSC
Bachman's sparrow	<i>Aimophila aestivalis</i>	FSC
Broadtail madtom	<i>Noturus</i> sp. cf. <i>leptacanthus</i>	FSC
Carolina crawfish frog	<i>Rana capito</i> <i>capito</i>	FSC
Pinewoods darter **	<i>Etheostoma mariae</i>	FSC
Rafinesque's big-eared bat	<i>Corynorhinus rafinesquii</i>	FSC
Red-cockaded woodpecker	<i>Picoides borealis</i>	E
Southeastern myotis	<i>Myotis austroriparius</i>	FSC
Southern hognose snake	<i>Heterodon simus</i>	FSC

#### Invertebrate

Bronze clubtail **	<i>Stylurus</i> (= <i>Gomphus</i> ) <i>townesi</i>	FSC
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#### Vascular Plant

Awned meadowbeauty	<i>Rhexia aristosa</i>	FSC
Bog spicebush	<i>Lindera subcoriacea</i>	FSC
Carolina bogmint	<i>Macbridea caroliniana</i>	FSC
False coco	<i>Pteroglossaspis ecristata</i>	FSC
Georgia lead-plant *	<i>Amorpha georgiana</i> var. <i>georgiana</i>	FSC
Michaux's sumac	<i>Rhus michauxii</i>	E
Sandhills milk-vetch *	<i>Astragalus michauxii</i>	FSC
Venus' fly-trap *	<i>Dionaea muscipula</i>	FSC

**Rockingham County***Species*Invertebrate

Green floater	<i>Lasmigona subviridis</i>	FSC
James (=Virginia) spiny mussel	<i>Pleurobema collina</i>	E

Vascular Plant

Prairie birdsfoot-trefoil	<i>Lotus unifoliolatus</i> var. <i>helleri</i>	FSC
Smooth coneflower	<i>Echinacea laevigata</i>	E

**Rowan County***Species*Vertebrate

Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Carolina darter %	<i>Etheostoma collis collis</i>	FSC
Robust redhorse *	<i>Moxostoma robustum</i>	FSC

Invertebrate

Yellow lampmussel	<i>Lampsilis cariosa</i>	FSC
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Vascular Plant

Georgia aster	<i>Symphotrichum georgianum</i>	C
Prairie birdsfoot-trefoil	<i>Lotus unifoliolatus</i> var. <i>helleri</i>	FSC
Schweinitz's sunflower	<i>Helianthus schweinitzii</i>	E
Virginia quillwort *	<i>Isoetes virginica</i>	FSC

**Rutherford County***Species*Vertebrate

Cerulean warbler	<i>Dendroica cerulea</i>	FSC
Eastern small-footed bat	<i>Myotis leibii</i>	FSC
Green salamander	<i>Aneides aeneus</i>	FSC
Indiana bat	<i>Myotis sodalis</i>	E
Northern pine snake **	<i>Pituophis melanoleucus melanoleucus</i>	FSC
Southern Appalachian eastern woodrat	<i>Neotoma floridana haematorea</i>	FSC

Vascular Plant

Blue Ridge Ragwort	<i>Packera millefolium</i>	FSC
Butternut	<i>Juglans cinerea</i>	FSC
Dwarf-flowered heartleaf	<i>Hexastylis naniflora</i>	T
Granite dome goldenrod	<i>Solidago simulans</i>	FSC
Gray's saxifrage	<i>Saxifraga caroliniana</i>	FSC
Mountain catchfly *	<i>Silene ovata</i>	FSC

COMMON NAME	SCIENTIFIC NAME	STATUS
Mountain heartleaf	<i>Hexastylis contracta</i>	FSC
Small whorled pogonia	<i>Isotria medeoloides</i>	T
Sweet pinesap	<i>Monotropsis odorata</i>	FSC
White irisette	<i>Sisyrrinchium dichotomum</i>	E
<u>Lichen</u>		
Rock gnome lichen	<i>Gymnoderma lineare</i>	E

## Sampson County

### Species

#### Vertebrate

American alligator *	<i>Alligator mississippiensis</i>	T (S/A)
American eel	<i>Anguilla rostrata</i>	FSC
Bachman's sparrow	<i>Aimophila aestivalis</i>	FSC
Broadtail madtom **	<i>Noturus</i> sp. cf. <i>leptacanthus</i>	FSC
Carolina crawfish frog	<i>Rana capito capito</i>	FSC
Mimic glass lizard *	<i>Ophisaurus mimicus</i>	FSC
Red-cockaded woodpecker	<i>Picoides borealis</i>	E
Southern hognose snake	<i>Heterodon simus</i>	FSC

#### Invertebrate

American sandburrowing mayfly	<i>Dolania americana</i>	FSC
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#### Vascular Plant

American chaffseed	<i>Schwalbea americana</i>	E
Awned meadowbeauty	<i>Rhexia aristosa</i>	FSC
Butternut *	<i>Juglans cinerea</i>	FSC
Carolina bogmint	<i>Macbridea caroliniana</i>	FSC
Grassleaf arrowhead	<i>Sagittaria weatherbiana</i>	FSC
Pondberry	<i>Lindera melissifolia</i>	E
Pondspice	<i>Litsea aestivalis</i>	FSC
Raven's boxseed *	<i>Ludwigia ravenii</i>	FSC
Sandhills milk-vetch	<i>Astragalus michauxii</i>	FSC
Spring-flowering goldenrod	<i>Solidago verna</i>	FSC
Venus' fly-trap	<i>Dionaea muscipula</i>	FSC

#### Nonvascular plant

a liverwort	<i>Cylindrocolea andersonii</i>	FSC
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## COMMON NAME

## SCIENTIFIC NAME

## STATUS

**Scotland County***Species*Vertebrate

American alligator *	<i>Alligator mississippiensis</i>	T (S/A)
American eel	<i>Anguilla rostrata</i>	FSC
Bachman's sparrow	<i>Aimophila aestivalis</i>	FSC
Carolina crawfish frog	<i>Rana capito capito</i>	FSC
Northern pine snake	<i>Pituophis melanoleucus melanoleucus</i>	FSC
Pinewoods darter	<i>Etheostoma mariae</i>	FSC
Red-cockaded woodpecker	<i>Picoides borealis</i>	E
Sandhills chub	<i>Semotilus lumbee</i>	FSC
Southeastern myotis	<i>Myotis austroriparius</i>	FSC
Southern hognose snake	<i>Heterodon simus</i>	FSC

Vascular Plant

American chaffseed	<i>Schwalbea americana</i>	E
Awned meadowbeauty	<i>Rhexia aristosa</i>	FSC
Bog oatgrass	<i>Danthonia epilis</i>	FSC
Bog spicebush	<i>Lindera subcoriacea</i>	FSC
Boykin's lobelia	<i>Lobelia boykinii</i>	FSC
Canby's dropwort	<i>Oxypolis canbyi</i>	E
Carolina grass-of-parnassus	<i>Parnassia caroliniana</i>	FSC
Georgia lead-plant *	<i>Amorpha georgiana</i> var. <i>georgiana</i>	FSC
Michaux's sumac	<i>Rhus michauxii</i>	E
Pickering's dawnflower	<i>Stylisma pickeringii</i> var. <i>pickeringii</i>	FSC
Roughleaf yellow-eyed grass	<i>Xyris scabrifolia</i>	FSC
Rough-leaved loosestrife	<i>Lysimachia asperulaefolia</i>	E
Sandhills bog lily	<i>Lilium pyrophilum</i>	FSC
Sandhills milk-vetch	<i>Astragalus michauxii</i>	FSC
Spring-flowering goldenrod	<i>Solidago verna</i>	FSC

Nonvascular plant

Savanna campylopus	<i>Campylopus carolinae</i>	FSC
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**Stanly County***Species*Vertebrate

American eel	<i>Anguilla rostrata</i>	FSC
Bald eagle	<i>Haliaeetus leucocephalus</i>	T

COMMON NAME	SCIENTIFIC NAME	STATUS
Carolina darter	<i>Etheostoma collis collis</i>	FSC
<u>Invertebrate</u>		
Brook floater	<i>Alasmidonta varicosa</i>	FSC
Carolina creekshell	<i>Villosa vaughaniana</i>	FSC
<u>Vascular Plant</u>		
Butternut *	<i>Juglans cinerea</i>	FSC
Dwarf aster	<i>Eurybia mirabilis</i>	FSC
Georgia aster *	<i>Symphotrichum georgianum</i>	C
Prairie birdsfoot-trefoil	<i>Lotus unifoliolatus</i> var. <i>helleri</i>	FSC
Riparian vervain **	<i>Verbena riparia</i>	FSC
Schweinitz's sunflower	<i>Helianthus schweinitzii</i>	E
Virginia quillwort *	<i>Isoetes virginica</i>	FSC
Yadkin River goldenrod	<i>Solidago plumosa</i>	C

## Stokes County

### Species

#### Vertebrate

Orangefin madtom	<i>Noturus gilberti</i>	FSC
Rustyside sucker	<i>Thoburnia hamiltoni</i>	FSC

#### Invertebrate

Diana fritillary (butterfly)	<i>Speyeria diana</i>	FSC
Green floater	<i>Lasmigona subviridis</i>	FSC
James (=Virginia) spiny mussel	<i>Pleurobema collina</i>	E
Margarita River skimmer	<i>Macromia margarita</i>	FSC

#### Vascular Plant

Butternut *	<i>Juglans cinerea</i>	FSC
Cuthbert turtlehead	<i>Chelone cuthbertii</i>	FSC
Schweinitz's sunflower	<i>Helianthus schweinitzii</i>	E
Small-anthered bittercress	<i>Cardamine micranthera</i>	E
Sweet pinesap	<i>Monotropsis odorata</i>	FSC

## Surry County

### Species

#### Vertebrate

Bog turtle	<i>Clemmys muhlenbergii</i>	T (S/A)
Robust redhorse *	<i>Moxostoma robustum</i>	FSC

#### Invertebrate

Brook floater	<i>Alasmidonta varicosa</i>	FSC
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Vascular Plant

Schweinitz's sunflower	<i>Helianthus schweinitzii</i>	E
Small whorled pogonia *	<i>Isotria medeoloides</i>	T

**Swain County**

*Critical Habitat*

Vertebrate

Spotfin chub (=turquoise shiner)	<i>Erimonax monachus</i>	T
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Little Tennessee River, main channel from the backwaters of Fontana Lake upstream to the North Carolina-Georgia state line. September 22, 1977, Federal Register, 42:47840-47845.

Invertebrate

Appalachian elktoe	<i>Alasmidonta raveneliana</i>	E
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The main stem of the Little Tennessee River (Tennessee River system), from the Lake Emory Dam at Franklin, Macon County, North Carolina, downstream to the backwaters of Fontana Reservoir in Swain County, North Carolina, and the main stem of the Tuckasegee River (Little Tennessee River system), from the N.C. State Route 1002 Bridge in Cullowhee, Jackson County, North Carolina, downstream to the N.C. Highway 19 Bridge, north of Bryson City, Swain County, North Carolina. Within these areas, the primary constituent elements include: (i) Permanent, flowing, cool, clean water; (ii) Geomorphically stable stream channels and banks; (iii) Pool, riffle, and run sequences within the channel; (iv) Stable sand, gravel, cobble, boulder, and bedrock substrates with no more than low amounts of fine sediment; (v) Moderate to high stream gradient; (vi) Periodic natural flooding; and (vii) Fish hosts, with adequate living, foraging, and spawning areas for them. September 27, 2002, Federal Register, 67:61016-61040.

Spruce-fir moss spider *	<i>Microhexura montivaga</i>	E
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All portions of the Great Smoky Mountain National Park bounded to the north and to the south of the North Carolina/Tennessee State line by the 1,646-m (5,400-ft) contour, from the intersection of the 1,646-m (5,400-ft) contour with the State line, south of Mingus Lead, Tennessee, southwest and then west to the intersection of the 1,646-m (5,400-ft) contour with the State line, east of The Narrows and west of Jenkins Knob, North Carolina, and Tennessee. Within these areas, the primary constituent elements include (1) Fraser fir or fir-dominated spruce-fir forests at and above 1,646-m (5,400-m) in elevation, and (2) moderately thick and humid, but not wet, moss (species in the genus *Dicranodontium*, and possibly *Polytrichum*) and/or liverwort mats on rock surfaces that are adequately sheltered from the sun and rain (by overhang and aspect) and include a thin layer of humid soil and/or humus between the moss and rock surface. July 6, 2001, Federal Register, 66:35547-35566.

*Species*

Vertebrate

Appalachian cottontail	<i>Sylvilagus obscurus</i>	FSC
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Bog turtle %	<i>Clemmys muhlenbergii</i>	T (S/A)
Carolina northern flying squirrel	<i>Glaucomys sabrinus coloratus</i>	E
Eastern puma (=cougar) *	<i>Puma concolor cougar</i>	E
Eastern small-footed bat	<i>Myotis leibii</i>	FSC
Gray bat	<i>Myotis grisescens</i>	E

COMMON NAME	SCIENTIFIC NAME	STATUS
Hellbender **	<i>Cryptobranchus alleganiensis</i>	FSC
Indiana bat (S)	<i>Myotis sodalis</i>	E
Northern pine snake *	<i>Pituophis melanoleucus melanoleucus</i>	FSC
Northern saw-whet owl (Southern Appalachian population)	<i>Aegolius acadicus</i> pop. 1	FSC
Olive darter	<i>Percina squamata</i>	FSC
Olive-sided flycatcher	<i>Contopus cooperi</i>	FSC
Pygmy salamander	<i>Desmognathus wrighti</i>	FSC
Rafinesque's big-eared bat	<i>Corynorhinus rafinesquii</i>	FSC
Red crossbill (Southern Appalachian)	<i>Loxia curvirostra</i>	FSC
Seepage salamander	<i>Desmognathus aeneus</i>	FSC
Sicklefin redhorse	<i>Moxostoma</i> sp. 1	C
Smoky dace	<i>Clinostomus funduloides</i> ssp.	FSC
Southern Appalachian black-capped chickadee	<i>Poecile atricapillus praticus</i>	FSC
Southern Appalachian eastern woodrat	<i>Neotoma floridana haematoreia</i>	FSC
Southern rock vole **	<i>Microtus chrotorrhinus carolinensis</i>	FSC
Southern water shrew *	<i>Sorex palustris punctulatus</i>	FSC
Spotfin chub (=turquoise shiner)	<i>Erimonax monachus</i>	T
wounded darter	<i>Etheostoma vulneratum</i>	FSC
Yellow-bellied sapsucker (Southern Appalachian population)	<i>Sphyrapicus varius appalachiensis</i>	FSC
<u>Invertebrate</u>		
Appalachian elktoe	<i>Alasmidonta raveneliana</i>	E
Clingman covert	<i>Mesodon clingmanicus</i>	FSC
Diana fritillary (butterfly) **	<i>Speyeria diana</i>	FSC
French Broad crayfish %	<i>Cambarus reburus</i>	FSC
Little Tennessee mussel	<i>Lexingtonia</i> sp. cf. <i>dolabelloides</i>	FSC
Little-wing pearl mussel	<i>Pegias fabula</i>	E
Lost Nantahala Cave spider **	<i>Nesticus cooperi</i>	FSC
Margarita River skimmer	<i>Macromia margarita</i>	FSC
Noonday snail	<i>Mesodon clarki nantahala</i>	T
Southern Tawny Crescent butterfly	<i>Phyciodes batesii maconensis</i>	FSC
Spruce-fir moss spider *	<i>Microhexura montivaga</i>	E
<u>Vascular Plant</u>		
Butternut	<i>Juglans cinerea</i>	FSC
Creamy tick-trefoil *	<i>Desmodium ochroleucum</i>	FSC

COMMON NAME	SCIENTIFIC NAME	STATUS
Darlington's spurge *	<i>Euphorbia purpurea</i>	FSC
Fraser fir	<i>Abies fraseri</i>	FSC
Mountain bitter cress *	<i>Cardamine clematitis</i>	FSC
Mountain catchfly *	<i>Silene ovata</i>	FSC
Mountain Thaspium *	<i>Thaspium pinnatifidum</i>	FSC
Piratebush **	<i>Buckleya distichophylla</i>	FSC
Rugel's ragwort	<i>Rugelia nudicaulis</i>	FSC
Smoky Mountains manna grass *	<i>Glyceria nubigena</i>	FSC
Southern Oconee-bells *	<i>Shortia galacifolia</i> var. <i>galacifolia</i>	FSC
Sweet pinesap *	<i>Monotropsis odorata</i>	FSC
Virginia spiraea	<i>Spiraea virginiana</i>	T
<u>Nonvascular plant</u>		
a liverwort *	<i>Sphenolobopsis pearsonii</i>	FSC
a liverwort *	<i>Plagiochila sullivantii</i> var. <i>sullivantii</i>	FSC
<u>Lichen</u>		
Rock gnome lichen *	<i>Gymnoderma lineare</i>	E

## Transylvania County

### Critical Habitat

#### Invertebrate

Appalachian elktoe	<i>Alasmidonta raveneliana</i>	E
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The main stem of the Little River (French Broad River system), from the Cascade Lake Power Plant, downstream to its confluence with the French Broad River. Within these areas, the primary constituent elements include: (i) Permanent, flowing, cool, clean water; (ii) Geomorphically stable stream channels and banks; (iii) Pool, riffle, and run sequences within the channel; (iv) Stable sand, gravel, cobble, boulder, and bedrock substrates with no more than low amounts of fine sediment; (v) Moderate to high stream gradient; (vi) Periodic natural flooding; and (vii) Fish hosts, with adequate living, foraging, and spawning areas for them. September 27, 2002, Federal Register, 67:61016-61040.

### Species

#### Vertebrate

Appalachian Bewick's wren *	<i>Thryomanes bewickii altus</i>	FSC
Appalachian cottontail	<i>Sylvilagus obscurus</i>	FSC
Bog turtle	<i>Clemmys muhlenbergii</i>	T (S/A)
Carolina northern flying squirrel	<i>Glaucomys sabrinus coloratus</i>	E
Cerulean warbler	<i>Dendroica cerulea</i>	FSC
Green salamander	<i>Aneides aeneus</i>	FSC
Hellbender	<i>Cryptobranchus alleganiensis</i>	FSC
Northern saw-whet owl (Southern Appalachian population)	<i>Aegolius acadicus</i> pop. 1	FSC
Pygmy salamander	<i>Desmognathus wrighti</i>	FSC

COMMON NAME	SCIENTIFIC NAME	STATUS
Rafinesque's big-eared bat *	<i>Corynorhinus rafinesquii</i>	FSC
Red crossbill (Southern Appalachian)	<i>Loxia curvirostra</i>	FSC
Southern Appalachian black-capped chickadee	<i>Poecile atricapillus praticus</i>	FSC
Southern Appalachian eastern woodrat	<i>Neotoma floridana haematoreia</i>	FSC
Yellow-bellied sapsucker (Southern Appalachian population)	<i>Sphyrapicus varius appalachiensis</i>	FSC
<u>Invertebrate</u>		
Appalachian elktoe	<i>Alasmidonta raveneliana</i>	E
Diana fritillary (butterfly)	<i>Speyeria diana</i>	FSC
French Broad crayfish	<i>Cambarus reburus</i>	FSC
Grizzled skipper *	<i>Pyrgus wyandot</i>	FSC
Margarita River skimmer *	<i>Macromia margarita</i>	FSC
Oconee crayfish ostracod	<i>Cymocythere clavata</i>	FSC
Oyster mussel ****	<i>Epioblasma capsaeformis</i>	E
Tennessee clubshell	<i>Pleurobema oviforme</i>	FSC
Transylvania crayfish ostracod *	<i>Waltoncythere acuta</i>	FSC
<u>Vascular Plant</u>		
Alexander's rock aster *	<i>Eurybia avita</i>	FSC
Butternut	<i>Juglans cinerea</i>	FSC
Cuthbert turtlehead	<i>Chelone cuthbertii</i>	FSC
Fraser fir	<i>Abies fraseri</i>	FSC
Fraser's loosestrife	<i>Lysimachia fraseri</i>	FSC
French Broad heartleaf	<i>Hexastylis rhombiformis</i>	FSC
Large-leaved Grass-of-Parnassus	<i>Parnassia grandifolia</i>	FSC
Lobed Barren-strawberry	<i>Waldsteinia lobata</i>	FSC
Mountain bitter cress	<i>Cardamine clematitis</i>	FSC
Mountain sweet pitcherplant	<i>Sarracenia rubra</i> ssp. <i>jonesii</i>	E
Small whorled pogonia	<i>Isotria medeoloides</i>	T
Smoky Mountains manna grass	<i>Glyceria nubigena</i>	FSC
Southern Oconee-bells	<i>Shortia galacifolia</i> var. <i>galacifolia</i>	FSC
Spreading avens	<i>Geum radiatum</i>	E
Swamp pink	<i>Helonias bullata</i>	T
Sweet pinesap	<i>Monotropsis odorata</i>	FSC
<u>Nonvascular plant</u>		
a hornwort *	<i>Aspiromitus appalachianus</i>	FSC
a liverwort *	<i>Plagiochila sullivantii</i> var. <i>sullivantii</i>	FSC

COMMON NAME	SCIENTIFIC NAME	STATUS
a liverwort *	<i>Plagiochila virginica</i> var. <i>caroliniana</i>	FSC
a liverwort	<i>Porella wataugensis</i>	FSC
a liverwort *	<i>Plagiochila sharpii</i>	FSC
Gorge moss *	<i>Bryocrumia vivicolor</i>	FSC
<u>Lichen</u>		
Rock gnome lichen	<i>Gymnoderma lineare</i>	E

## Tyrrell County

### Species

#### Vertebrate

American alligator *	<i>Alligator mississippiensis</i>	T (S/A)
American eel	<i>Anguilla rostrata</i>	FSC
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Black-throated green warbler	<i>Dendroica virens waynei</i>	FSC
Rafinesque's big-eared bat	<i>Corynorhinus rafinesquii</i>	FSC
Red wolf	<i>Canis rufus</i>	E (XN)
Red-cockaded woodpecker	<i>Picoides borealis</i>	E

## Union County

### Critical Habitat

#### Invertebrate

Carolina heelsplitter	<i>Lasmigona decorata</i>	E
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The main stem of Goose Creek (Pee Dee River system), from the N.C. Highway 218 Bridge, downstream to its confluence with the Rocky River, and the main stem of Duck Creek, from the Mecklenburg/Union County line, downstream to its confluence with Goose Creek; the main stem of Waxhaw Creek (Catawba River system), from the N.C. Highway 200 Bridge, downstream to the North Carolina/South Carolina State line; and the main stem of Flat Creek (Pee Dee River system), Lancaster County, South Carolina, from the S.C. Route 204 Bridge, downstream to its confluence with the Lynches River, and the main stem of the Lynches River, Lancaster and Chesterfield Counties, South Carolina, from the confluence of Belk Branch, Lancaster County, northeast (upstream) of the U.S. Highway 601 Bridge, downstream to the S.C. Highway 903 Bridge in Kershaw County, South Carolina. Within these areas, the primary constituent elements include: (i) Permanent, flowing, cool, clean water; (ii) Geomorphically stable stream and river channels and banks; (iii) Pool, riffle, and run sequences within the channel; (iv) Stable substrates with no more than low amounts of fine sediment; (v) Moderate stream gradient; (vi) Periodic natural flooding; and (vii) Fish hosts, with adequate living, foraging, and spawning areas for them. July 2, 2002, Federal Register, 67:44501-44522.

### Species

#### Vertebrate

American eel	<i>Anguilla rostrata</i>	FSC
Carolina darter	<i>Etheostoma collis collis</i>	FSC

#### Invertebrate

Atlantic pigtoe	<i>Fusconaia masoni</i>	FSC
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COMMON NAME	SCIENTIFIC NAME	STATUS
Carolina creekshell	<i>Villosa vaughaniana</i>	FSC
Carolina heelsplitter	<i>Lasmigona decorata</i>	E
Savannah lilliput	<i>Toxolasma pullus</i>	FSC
Yellow lampmussel %	<i>Lampsilis cariosa</i>	FSC
<u>Vascular Plant</u>		
Dwarf aster	<i>Eurybia mirabilis</i>	FSC
Georgia aster	<i>Symphotrichum georgianum</i>	C
Michaux's sumac	<i>Rhus michauxii</i>	E
Prairie birdsfoot-trefoil	<i>Lotus unifoliolatus</i> var. <i>helleri</i>	FSC
Schweinitz's sunflower	<i>Helianthus schweinitzii</i>	E
Shoals spiderlily %	<i>Hymenocallis coronaria</i>	FSC
Virginia quillwort *	<i>Isoetes virginica</i>	FSC

## Vance County

### Species

#### Vertebrate

American eel	<i>Anguilla rostrata</i>	FSC
Bald eagle *	<i>Haliaeetus leucocephalus</i>	T
Carolina madtom	<i>Noturus furiosus</i>	FSC
Pinewoods shiner **	<i>Lythrurus matutinus</i>	FSC

#### Invertebrate

Dwarf wedgemussel	<i>Alasmidonta heterodon</i>	E
Yellow lampmussel	<i>Lampsilis cariosa</i>	FSC
Yellow lance	<i>Elliptio lanceolata</i>	FSC

#### Vascular Plant

Buttercup phacelia	<i>Phacelia covillei</i>	FSC
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## Wake County

### Species

#### Vertebrate

American eel	<i>Anguilla rostrata</i>	FSC
Bachman's sparrow *	<i>Aimophila aestivalis</i>	FSC
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Carolina darter %	<i>Etheostoma collis lepidinon</i>	FSC
Carolina madtom	<i>Noturus furiosus</i>	FSC
Pinewoods shiner	<i>Lythrurus matutinus</i>	FSC
Red-cockaded woodpecker *	<i>Picoides borealis</i>	E
Roanoke bass **	<i>Ambloplites cavifrons</i>	FSC
Southeastern myotis *	<i>Myotis austroriparius</i>	FSC

COMMON NAME	SCIENTIFIC NAME	STATUS
Southern hognose snake **	<i>Heterodon simus</i>	FSC
<u>Invertebrate</u>		
Atlantic pigtoe	<i>Fusconaia masoni</i>	FSC
Diana fritillary (butterfly) **	<i>Speyeria diana</i>	FSC
Dwarf wedgemussel	<i>Alasmidonta heterodon</i>	E
Green floater	<i>Lasmigona subviridis</i>	FSC
Yellow lance	<i>Elliptio lanceolata</i>	FSC
<u>Vascular Plant</u>		
Bog spicebush	<i>Lindera subcoriacea</i>	FSC
Grassleaf arrowhead	<i>Sagittaria weatherbiana</i>	FSC
Michaux's sumac	<i>Rhus michauxii</i>	E
Sweet pinesap *	<i>Monotropsis odorata</i>	FSC

## Warren County

### Species

#### Vertebrate

American eel	<i>Anguilla rostrata</i>	FSC
Bachman's sparrow	<i>Aimophila aestivalis</i>	FSC
Bald eagle *	<i>Haliaeetus leucocephalus</i>	T
Pinewoods shiner **	<i>Lythrurus matutinus</i>	FSC
Roanoke bass	<i>Ambloplites cavifrons</i>	FSC

#### Invertebrate

Atlantic pigtoe	<i>Fusconaia masoni</i>	FSC
Dwarf wedgemussel	<i>Alasmidonta heterodon</i>	E
Tar River spiny mussel	<i>Elliptio steinstansana</i>	E
Yellow lance	<i>Elliptio lanceolata</i>	FSC

#### Vascular Plant

Prairie birdsfoot-trefoil *	<i>Lotus unifoliolatus</i> var. <i>helleri</i>	FSC
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## Washington County

### Species

#### Vertebrate

American alligator	<i>Alligator mississippiensis</i>	T (S/A)
American eel	<i>Anguilla rostrata</i>	FSC
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Black-throated green warbler	<i>Dendroica virens waynei</i>	FSC
Lake Phelps killfish	<i>Fundulus</i> cf. <i>diaphanus</i>	FSC
Rafinesque's big-eared bat	<i>Corynorhinus rafinesquii</i>	FSC
Red wolf	<i>Canis rufus</i>	E (XN)

## Watauga County

### Critical Habitat

#### Invertebrate

Spruce-fir moss spider

*Microhexura montivaga*

E

All areas of privately owned Grandfather Mountain at and above the 1,646-m (5,400-ft) contour. Within these areas, the primary constituent elements include (1) Fraser fir or fir-dominated spruce-fir forests at and above 1,646-m (5,400-m) in elevation, and (2) moderately thick and humid, but not wet, moss (species in the genus *Dicranodontium*, and possibly *Polytrichum*) and/or liverwort mats on rock surfaces that are adequately sheltered from the sun and rain (by overhang and aspect) and include a thin layer of humid soil and/or humus between the moss and rock surface. July 6, 2001, Federal Register, 66:35547-35566.

### Species

#### Vertebrate

Allegheny woodrat

*Neotoma magister*

FSC

Appalachian cottontail

*Sylvilagus obscurus*

FSC

Bog turtle

*Clemmys muhlenbergii*

T (S/A)

Carolina northern flying squirrel

*Glaucomys sabrinus coloratus*

E

Cerulean warbler

*Dendroica cerulea*

FSC

Eastern small-footed bat

*Myotis leibii*

FSC

Golden-winged warbler

*Vermivora chrysoptera*

FSC

Hellbender

*Cryptobranchus alleganiensis*

FSC

Kanawha minnow

*Phenacobius teretulus*

FSC

Northern saw-whet owl (Southern Appalachian population)

*Aegolius acadicus* pop. 1

FSC

Pygmy salamander

*Desmognathus wrighti*

FSC

Red crossbill (Southern Appalachian) %

*Loxia curvirostra*

FSC

Southern Appalachian black-capped chickadee

*Poecile atricapillus praticus*

FSC

Southern water shrew \*\*

*Sorex palustris punctulatus*

FSC

Virginia big-eared bat

*Corynorhinus townsendii virginianus*

E

Yellow-bellied sapsucker (Southern Appalachian population)

*Sphyrapicus varius appalachiensis*

FSC

#### Invertebrate

Diana fritillary (butterfly)

*Speyeria diana*

FSC

Green floater

*Lasmigona subviridis*

FSC

Spruce-fir moss spider

*Microhexura montivaga*

E

#### Vascular Plant

Bent avens

*Geum geniculatum*

FSC

Blue Ridge goldenrod

*Solidago spithamea*

T

COMMON NAME	SCIENTIFIC NAME	STATUS
Bog blue grass *	<i>Poa paludigena</i>	FSC
Butternut *	<i>Juglans cinerea</i>	FSC
Darlington's spurge **	<i>Euphorbia purpurea</i>	FSC
Fraser fir	<i>Abies fraseri</i>	FSC
Gray's lily	<i>Lilium grayi</i>	FSC
Gray's saxifrage	<i>Saxifraga caroliniana</i>	FSC
Heller's blazing star	<i>Liatris helleri</i>	T
Large-leaved Grass-of-Parnassus	<i>Parnassia grandifolia</i>	FSC
Mountain bitter cress	<i>Cardamine clematitis</i>	FSC
Roan mountain bluet	<i>Hedyotis purpurea</i> var. <i>montana</i>	E
Spreading avens	<i>Geum radiatum</i>	E
Tall larkspur	<i>Delphinium exaltatum</i>	FSC
<u>Nonvascular plant</u>		
a liverwort	<i>Sphenolobopsis pearsonii</i>	FSC
a liverwort *	<i>Porella wataugensis</i>	FSC
a liverwort	<i>Plagiochila sullivantii</i> var. <i>sullivantii</i>	FSC

## Wayne County

### Species

#### Vertebrate

American eel	<i>Anguilla rostrata</i>	FSC
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Carolina madtom	<i>Noturus furiosus</i>	FSC
Pinewoods shiner **	<i>Lythrurus matutinus</i>	FSC
Rafinesque's big-eared bat *	<i>Corynorhinus rafinesquii</i>	FSC
Red-cockaded woodpecker	<i>Picoides borealis</i>	E
Southern hognose snake **	<i>Heterodon simus</i>	FSC

#### Invertebrate

Atlantic pigtoe	<i>Fusconaia masoni</i>	FSC
Yellow lance	<i>Elliptio lanceolata</i>	FSC

#### Vascular Plant

Cuthbert turtlehead	<i>Chelone cuthbertii</i>	FSC
Pondspice	<i>Litsea aestivalis</i>	FSC

## Wilkes County

### Species

#### Vertebrate

Bog turtle	<i>Clemmys muhlenbergii</i>	T (S/A)
Cerulean warbler	<i>Dendroica cerulea</i>	FSC

COMMON NAME	SCIENTIFIC NAME	STATUS
Eastern small-footed bat	<i>Myotis leibii</i>	FSC
<u>Invertebrate</u>		
Diana fritillary (butterfly)	<i>Speyeria diana</i>	FSC
Regal fritillary (butterfly) *	<i>Speyeria idalia</i>	FSC
<u>Vascular Plant</u>		
Butternut *	<i>Juglans cinerea</i>	FSC
Radford's St. John's-wort	<i>Hypericum</i> sp. 1	FSC
Torrey's Mountain-mint *	<i>Pycnanthemum torrei</i>	FSC

## Wilson County

### Species

#### Vertebrate

American eel	<i>Anguilla rostrata</i>	FSC
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Carolina madtom	<i>Noturus furiosus</i>	FSC
Eastern Henslow's sparrow	<i>Ammodramus henslowii susurrans</i>	FSC
Pinewoods shiner **	<i>Lythrurus matutinus</i>	FSC
Red-cockaded woodpecker *	<i>Picoides borealis</i>	E

#### Invertebrate

Atlantic pigtoe	<i>Fusconaia masoni</i>	FSC
Dwarf wedgemussel	<i>Alasmidonta heterodon</i>	E

#### Vascular Plant

Michaux's sumac *	<i>Rhus michauxii</i>	E
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## Yadkin County

### Species

#### Vertebrate

Robust redbhorse *	<i>Moxostoma robustum</i>	FSC
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#### Invertebrate

Brook floater **	<i>Alasmidonta varicosa</i>	FSC
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## Yancey County

### Critical Habitat

#### Invertebrate

Appalachian elktoe	<i>Alasmidonta raveneliana</i>	E
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The main stem of the North Toe River, Yancey and Mitchell Counties, North Carolina, from the confluence of Big Crabtree Creek, downstream to the confluence of the South Toe River; the main stem of the South Toe River, Yancey County, North Carolina, from the N.C. State Route 1152 Bridge, downstream to its confluence with the North Toe River; the main stem of the Toe River, Yancey and Mitchell Counties, North Carolina, from the confluence of the North Toe River and the South Toe River, downstream to the confluence of the Cane River; the main stem of the Cane River, Yancey County, North Carolina, from the N.C. State Route 1381 Bridge, downstream to its confluence with the Toe River; and the main stem of the Nolichucky River, from the confluence of the Toe River and the Cane River in Yancey and

## COMMON NAME

## SCIENTIFIC NAME

## STATUS

Mitchell Counties, North Carolina, downstream to the U.S. Highway 23/19W Bridge southwest of Erwin, Unicoi County, Tennessee. Within these areas, the primary constituent elements include: (i) Permanent, flowing, cool, clean water; (ii) Geomorphically stable stream channels and banks; (iii) Pool, riffle, and run sequences within the channel; (iv) Stable sand, gravel, cobble, boulder, and bedrock substrates with no more than low amounts of fine sediment; (v) Moderate to high stream gradient; (vi) Periodic natural flooding; and (vii) Fish hosts, with adequate living, foraging, and spawning areas for them. September 27, 2002, Federal Register, 67:61016-61040.

*Species*Vertebrate

Allegheny woodrat	<i>Neotoma magister</i>	FSC
Appalachian cottontail	<i>Sylvilagus obscurus</i>	FSC
Blotchside logperch	<i>Percina burtoni</i>	FSC
Bog turtle	<i>Clemmys muhlenbergii</i>	T (S/A)
Carolina northern flying squirrel	<i>Glaucomys sabrinus coloratus</i>	E
Eastern puma (=cougar) *	<i>Puma concolor cougar</i>	E
Eastern small-footed bat	<i>Myotis leibii</i>	FSC
Hellbender	<i>Cryptobranchus alleganiensis</i>	FSC
Mountain blotched chub **	<i>Erimystax insignis eristigma</i>	FSC
Northern saw-whet owl (Southern Appalachian population)	<i>Aegolius acadicus</i> pop. 1	FSC
Olive darter	<i>Percina squamata</i>	FSC
Olive-sided flycatcher	<i>Contopus cooperi</i>	FSC
Pygmy salamander	<i>Desmognathus wrighti</i>	FSC
Red crossbill (Southern Appalachian)	<i>Loxia curvirostra</i>	FSC
Sharphead darter	<i>Etheostoma acuticeps</i>	FSC
Southern Appalachian black-capped chickadee *	<i>Poecile atricapillus praticus</i>	FSC
Southern rock vole	<i>Microtus chrotorrhinus carolinensis</i>	FSC
Virginia big-eared bat	<i>Corynorhinus townsendii virginianus</i>	E
Yellow-bellied sapsucker (Southern Appalachian population)	<i>Sphyrapicus varius appalachiensis</i>	FSC
<u>Invertebrate</u>		
a harvestman	<i>Fumontana deprehendor</i>	FSC
Appalachian elktoe	<i>Alasmidonta raveneliana</i>	E
Fragile supercoil	<i>Glyphyalinia clingmani</i>	FSC
Roan supercoil **	<i>Paravitrea varidens</i>	FSC
Spruce-fir moss spider *	<i>Microhexura montivaga</i>	E
Yancey sideswimmer **	<i>Stygobromus carolinensis</i>	FSC

COMMON NAME	SCIENTIFIC NAME	STATUS
<u>Vascular Plant</u>		
Butternut	<i>Juglans cinerea</i>	FSC
Cain's reedgrass	<i>Calamagrostis cainii</i>	FSC
Cuthbert turtlehead	<i>Chelone cuthbertii</i>	FSC
Darlington's spurge	<i>Euphorbia purpurea</i>	FSC
Fraser fir	<i>Abies fraseri</i>	FSC
Gray's lily	<i>Lilium grayi</i>	FSC
Gray's saxifrage *	<i>Saxifraga caroliniana</i>	FSC
Mountain bitter cress *	<i>Cardamine clematitis</i>	FSC
Mountain catchfly	<i>Silene ovata</i>	FSC
Roan mountain bluet	<i>Hedyotis purpurea</i> var. <i>montana</i>	E
Spreading avens	<i>Geum radiatum</i>	E
Virginia spiraea	<i>Spiraea virginiana</i>	T
<u>Nonvascular plant</u>		
a liverwort *	<i>Plagiochila sullivantii</i> var. <i>sullivantii</i>	FSC
a liverwort *	<i>Plagiochila sharpii</i>	FSC
a liverwort *	<i>Sphenolobopsis pearsonii</i>	FSC
<u>Lichen</u>		
Rock gnome lichen	<i>Gymnoderma lineare</i>	E

**KEY:****Definitions of Species Status Codes:**

- E =** endangered. A taxon “in danger of extinction throughout all or a significant portion of its range.”
- T =** threatened. A taxon “likely to become endangered within the foreseeable future throughout all or a significant portion of its range.”
- C =** candidate. A taxon under consideration for official listing for which there is sufficient information to support listing. (Formerly "C1" candidate species.)
- FSC =** federal species of concern. A species that may or may not be listed in the future (formerly C2 candidate species or species under consideration for listing for which there is insufficient information to support listing).
- T(S/A) =** threatened due to similarity of appearance. A taxon that is threatened due to similarity of appearance with another listed species and is therefore listed for its protection. Taxa listed as T(S/A) are not biologically endangered or threatened and are not subject to Section 7 consultation.
- EXP =** experimental population. A taxon whose is listed as experimental (either essential or nonessential). Experimental, nonessential endangered species (e.g., red wolf) are treated as threatened on public land, for consultation purposes, and as species proposed for listing on private land.
- P =** proposed. Taxa proposed for official listing as endangered or threatened will be noted as "PE" or "PT", respectively.

**Threatened due to similarity of appearance (T(S/A)):**

In the November 4, 1997, Federal Register (55822-55825), the northern population of the bog turtle (from New York south to Maryland) was listed as T (threatened), and the southern population (from Virginia south to Georgia) was listed as T(S/A) (threatened due to similarity of appearance). The T(S/A) designation bans the collection and interstate and international commercial trade of bog turtles from the southern population. The T(S/A) designation has no effect on land management activities by private landowners in North Carolina, part of the southern population of the species. In addition to its official status as T(S/A), the U.S. Fish and Wildlife Service considers the southern population of the bog turtle as a Federal species of concern due to habitat loss.

**Denotation of county records:**

- %** A percent symbol (%) indicates that the species is regarded as probable but as of yet undocumented in this county due to the presence of potentially suitable habitat and/or the proximity of confirmed observations of the species in adjacent counties.
- (S)** Summer habitat (Indiana bat county records only)
- \*** Historic record - the species was last observed in the county more than 50 years ago.
- \*\*** Obscure record - the date and/or location of observation is uncertain.
- \*\*\*** Incidental/migrant record - the species was observed outside of its normal range or habitat.
- \*\*\*\*** Historic and obscure record.
- \*\*\*\*\*** Obscure and incidental record.